

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19160	49528	A	19269	351	509	VVPLPLPLDSWTCESWLRSHI LTGESENPDKRI*PYTSDLPEG PGPWATD
19161	49529	A	19270	781	4324	ESVREKVLCLIQQTVTSVC/W SGTYIFAVLLVCVVFHSGAQEK NYTIREEIPENVLIGNLLKDLNL SLIPNKSLTTTMQFKLVYKTGD VPLIRIEEDTGEIFTTGARIDREK LCAGIPRDEHCFYEVEVAILPDE IFRLVKIRFLIEDINDNAPLPAT VINISIPENSAINSKYTLPAAVDP DVGINGVQNYELIKSQNIFGLD VIETPGGDKMPQLIVQKELDRE EKDTYVMKVKVEDGGFPQRSS
19162	49530	A	19271	3	644	FRSLPRRCLPRWQPSSFLGHHG PPFRPPCEAPKIVKKENPRKFIR APSQTGY\AKLSVNW\RKTPAI DN\RVR\RRF\KGQILMP\NIGYG SNKK\TKHM\LPSGFRKFL\HN VKEPEIAADVATNLTVPRSLTM FPPNRKAIRGKGACPIGPFSS PNPIARVAQLKEN*VRQLMCN KSYCAEIAHNVSSKNRKAIVER AAQLAIRVTNP NARAQ
19163	49531	B	19272	27	161	
19164	49532	A	19273	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19165	49533	A	19274	482	832	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19166	49534	A	19275	121	201	SMYMDEN*RLELITL*FSSMYM DHSL
19167	49535	B	19276	1	1147	
19168	49536	A	19277	305	442	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARHGSFADAE
19169	49537	A	19278	133	527	GFLERPRILIKVTLSEIKQKSTSIF VGGQFSKFRFLTVLAWKCLSQP CF*A*TPASQHV*SIRAISSMIS KRSELLVRLWRRPSP*AGLFKS RKVSSICIRFE*ILTSCLGVRIST GKLVARHGSFADAE
19170	49538	A	19279	531	669	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARHGSFADAE

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19171	49539	A	19280	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
19172	49540	A	19281	10	426	
19173	49541	A	19282	1	900	
19174	49542	A	19283	314	451	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19175	49543	A	19284	1	1139	MWGIGSRTPYINKILVYSSPEVS CEKPKYVKSQSTHTGFESHKR YIFYRLVGKNLHVSAMGLGK SQERRKKALKSQPQPADSFP LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLACLGMG KCSCSGFWLYF
19176	49544	A	19285	1	864	
19177	49545	A	19286	306	444	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19178	49546	A	19287	189	1089	HHTAHCQ*CWL*/S/DHGINPLRS WVG TG*V/GVRGKVQYADLGA ENWKPI SNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSR SKGR KNQRSTRTHCHHPSPKIYSASA KEPWV LATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQ EGSPPETSLPYKWVVEAANLLI PAVGSSLSEALDLIES
19179	49547	A	19288	1	549	
19180	49548	A	19289	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
19181	49549	A	19290	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19182	49550	A	19291	773	1015	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADASF STDLYHGTLKPASLTMSGVVLL GRMLARSARNWS

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19183	49551	B	19292	1	1488	
19184	49552	A	19293	2	133	YAQTDDNRRNLILNGTPLRRVK VLVFDIEYP**KVGYNSTLA
19185	49553	B	19294	1	879	
19186	49554	A	19295	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19187	49555	B	19296	1	1575	
19188	49556	C	19297	1	2187	
19189	49557	A	19298	473	613	AGLFSRKRKVSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT
19190	49558	A	19299	410	547	AGLFSRKRKVSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
19191	49559	A	19300	876	1005	
19192	49560	A	19301	167	263	KLIEAIWSS*FITGSSLRHNERLG ASTSSGEY
19193	49561	A	19302	258	396	AGLFSRKRKVSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
19194	49562	C	19303	1	1641	
19195	49563	A	19304	1221	1327	ALHPRNRHLHKERLGCIPVAC* LYLFGQYDAHCTC
19196	49564	C	19305	1	1353	
19197	49565	B	19306	1	2047	
19198	49566	A	19307	80	429	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF

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19199	49567	A	19308	1	2597	MAMFMLLAAALLSTFLTNDVA LYTVVPLTITLKRRLCEIPYNRLII FEGAGSQRFATDANWQPAK YSYLGTFWSFVCRIYCPNGTAG WRNDADAPAPVLAMQYHTGV QTPEWKPRLVWSCLGLYIVFLT ALEFKQELWGLVIVAAGFALL ARRVLSVDWTLVLVFMAMFI DVHLLTQLPALQGV LGNVISNV PSTILLNYPVPSLLL VWAVNV GGFGFLTCTRHARIAAPADLKDG LAVHEKRETRSLTEKTGKMLLP KLGVSRECGGNVKEVGIRAI EFGPYKINGDKEIMRRMDDLQ GFDAQHRMKLPAQPTSLATKS ARRVRYPLFCPSIFNGFEEFIFH RFLAEQALEFFNLLHGGSKFRG RNNLFSGGDSSRKNQRSTRTHC HHPSPKIYSASAKEPWVLTATNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRHSRTSSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEEEEATVP NNKITVVGVGQVGMACAISILG KSNAMEHTTAGAPYTPRQQT QCNMMSLADELALVDVLEDKL KGEMMDLQHGSLFLQTPKIVA DKDYSVTANSKIVVVTAGVRQ QEGESRLNLVQRNVNVFKFIIP QIVKYSPDCIIVVSNPRDILTY GTWKLSGLPKHRVIGSGCNLDS
19200	49568	A	19309	435	777	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP CRLVDWADIPEQQLMVLRAS VALHGRSVTLYEKAFFAFRAM FKRSS

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19201	49569	A	19310	69	1270	LCLLRHDCYRGLQSLLLILCKM ATLKEKLIAPVAE\DEA\TVPNN KIT\VVGV\GQVGM\CAISIPGK VSWPDEL\ALVGCWFEDKLKG GNDGSFQHGELIFFQTP*NCGQ DKGLFL*PANS*RFVSW*LAGS PVQPRRGRIRLQSWVPEKWLM VFQIPLFLKIVQVQSLICIHGGFN PQLDILTYVT\WETKVGLPKHR VIGSGCN\LDS\ARFRLMAEK TWHFIPSSC\HGWNFGGNMGDS SV\AVWNGV\NVAGVSL\QEL\N PENGNLTDKLIKWKEGA*IW WLKSA\YEVI\KLKGYPQLGAI WI*VLAESYWNPMLKKSYPRI HPGCPTNG*RQGMVGHWRME SPSLEPSLCIPQCPRGLNPAVIQP RSLKDDEVASARKSARIPLWD NPEWTLKRPLT
19202	49570	A	19311	52	406	HVEAAGSR*CAAPAGALLRFLG TPSFEDVSIPEKPKLRFIERAPLV PKVRREPKTLSDIRGPSTEATEF TEGNFAILALGGGYLHWGHFE MMRLTINRSMADPKNMFAIWR VPAPFQAH
19203	49571	A	19312	1	783	
19204	49572	A	19313	15	397	LLAEWTMGHTPVGGFRGAISL DAAP*EQGTMLVSWLCDLFLV LRILVGKTVSSKNIFIERVNGDG KHENIPMSSPPRSWFPSEKRFTN RRKTSSHLQNLVLGAVSLRQH WRGGVPRNLTRAPAGAAH
19205	49573	B	19314	127	181	
19206	49574	A	19315	242	1067	CAAPCGCPCQIPGALLPASAGV KTLLPVPSFEDVSIPEKPKA*DL LERAPTCAQK*RREP*KFKVTIR GP\SH*KPTEFYRKAIFAILGIGV VGYLHWG\HF*K*WRLTIQPAL WTPRTWFAIWR\VPAPFKPITRK SVGASHGGEAKGAI*HYLTPV KAGRLV\VEMGGRCEFARSAK VSLTQVALRSCPFASKRL*ACG TPREGCEQDQEERERQQPRTPW TI*AE*PTAQHGWAYGKVPEPH MTLTPQGEILGARFYMPKTCVV SVGDILYIGY
19207	49575	A	19316	1	520	

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19208	49576	A	19317	104	763	SAAADGPDRLRRRPPANLRARP VLAPASATASARRACSPHPQT MSESK\SCPEYASFFAVMGASA A\MVFSALGAAYGTAK\SGTGI AAMSVMRPEQIMKSIIPVVM\A GIIAMLRPGWVAVLIANSND ISLYKS\FLQLGAGLSVGLSGLA QPAFA\IGFVG\ DAGVR\GTAMH AADIFRGA*FLILIFAEVLR\Y GLIV\ALILFHKVDLFRAHQPT
19209	49577	A	19321	36	164	
19210	49578	A	19322	190	743	NDRGKEGSLSTVPSIRNTDSGH LAPRRKPQLKPSLNTSFPKAR KIHKGEEVASAGGNPPAPILP KVPP*FNIHRRGPPWPDHVRFG SLF\NTLFL\NW\CCLGVSLAFRL LP*KSRDTGKMGLGDVEPGAQ ALCLPPPKCLNI\WALILG\I\MT IGFIL\LLVFGSVDSL TILWFQIIQ GKTGGY
19211	49579	A	19323	2	257	
19212	49580	A	19324	1	1227	MGRARKSGLGQRSRPTASRSEA AVQPGVRKARGAGNWRVGLQ TGEAAPSPhrdLRDTPDRPWL ARTHRMTTTLVSATIFDLSEVL CKGNKMLNYSAPSAGGCLLDR KAVGTPAGGGFPRRHVS TLPSS KFHQNQLLSSLKGEPAPALSSR DSRFRDRSFSEGGERLLPTQKQ PGGGQVNSSRYKT\ELCRPFEE NGACKYGD KCQFAHGIHEL\RR LTLHTKD*TELCRTFHTIGFCPY GPRCHFIHNAEERRALAGARDL SADRPR LQHSFSFAGFPSAAAT AAATGLLDSP TSITPP\ILSADD LLGSPTLPDGTNNPFAFSSQELA SLFAPSMGLPGGSPTTFLFRP MSESPHMFDSPPSPQDSLSD\QE GYLSSSSSSHSGSDSPTLDNSRR LPIFSRLSISDD
19213	49581	A	19325	204	456	
19214	49582	A	19326	1	323	IVEYHGPVDSISCTGMATICN MGAEIGATTSVFPYNHRMKKY LSKTGREDIANLADEFK\ DHLVP DPGCHYDQLIEINLSEMV*PDM LPAPRLAHGVTVVVVGGLK
19215	49583	A	19327	2	131	
19216	49584	C	19328	2	283	
19217	49585	A	19329	1	206	
19218	49586	B	19330	217	435	

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19219	49587	A	19331	1	565	PWE*SPKGIGVSCGPLSGWS/SPKD/VILKVQ/GILRFKGGTVQIVESTGLG*TPFSCTGMRQFCNMGAEIGATTSV\FPYNHRMKKYLSKTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWP LDIRVDALACQSLAFGAAWVQCGCEEHGAWSQMAWA
19220	49588	A	19332	117	2603	GQHCLLPWGVFPFLKKALGV\AQ*\HVASVLCQRR\VAMSHFEPNEYIHYDLLEKNINIVRKRLNRL\ATLSE\KIVYGHLLDDPASQEIERGKSYLR\LP\DRVAMQDATAQ\MAMLQFISSGLSKVAVP\STIHCDHLK\EPQVGGEKDL\RRAKDINQEVYNFLATAGAKYGVGFWKPGSGIIHQIILENYCVPWLSF*LGPDFHTPNGGG\LG\ICIGSCGWPNAWEWNLGIPWE\KCP\QVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGMATICNMGAIEGATTSVFPYNHRMKKYLSKTGRE\DIANLA\DEFKVHLVP\DPG\CHYEPTELK\INLSEL\KPHIQWGPFTPDRGSPCWQEVGKVGREGKGWPL\DIRGGS*LVACTNFKLWKIWGRSAA\VAKQALAHG\LKCKSQF\TITPGFPRQ\IRATFEARDGYAQILRDLGG\IVL\ANACGPCIGQWD\RKDI\KMGEKNTI\VTSYNRNFTGRN\DPNPETHAFVTSPEIVTALAIAAGTLKF\NPETD*PDGARMGKKFQAWRFPD\AD*VFPKEF*PRGRDTYQHPPK\DSSG\QHVGT*APRSQRLQLLDPFDKWDGKDLEDLQILIKVKGKCTTDHISAAGPWLK\FRGHLDNIPN/NHLLIGAINIENGKANSVG\NAVQTQFPGPAP*QLAR\YYQETLASRLGW
19221	49589	B	19333	1	1311	

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19222	49590	A	19334	2	1390	PRVRPRVRARPTKMSALGSLSL PSVLWGQLFAVDSGNDVTDIA DD\GCPKPPEIAHGYV\EHSVRY QCKNYYKLRTEGDGVYTL\NTI EKQWIKLRLFGD\KLP*IVEADD GCPKPPEIAHGYVEHSVRYQCK NYYKLRTEGDGVYTLNNEKQ WINKAVGDKLPECEAVCG\KPK NP\ANPV\QRDPGVGHL\DCQRS FFPWARKDGFPHH*SSTHQGP RWIQLNQWLA*PRLKNLLSLN H\SENCQQRKDICYF*HFMWG KKQLVGD*GRLFLQP*LTFRVD IGL\KLQTEGCSC*LRRVMPICL PSKGLWQK*GRVGLCFLAGGR NAQF*NLLTHLKVCPCCPVA*P KTQCHKAIYERPSNKSRRKRN TRKKPL*GVQAPILK*NTFPLCL AMS*RYPKERHPAYG/QNAGAS ALCPFHRPLEEDTPGMPTGIL\S FDKS\CAVA\EYGVYV\KVTSIQ\ DWVQKTIA
19223	49591	A	19335	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKKLIYVHLVIWAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGPSFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHH KAYRFLFGFSAVSIMYLVVLVA VQVHAW\SLYYSKKLLDSWVH QHTGEEA
19224	49592	A	19336	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKKLIYVHLVIWAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGPSFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHH KAYRFLFGFSAVSIMYLVVLVA VQVHAW\SLYYSKKLLDSWVH QHTGEEA

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19225	49593	A	19337	71	1265	RCSKSLRMSTFFSDTAWICLAV PTVLCRTVFCTYKKSSGQLWS WMVCLAGLCAVCLLILSPFWG LILFSESCFLMHTYLSGQELLPV DQKAVLPTGGDCGLDHALSKY LDELGFTVFAGVLNENGPAAEE LRRTCSPLRSVLQMDITKPVQIK D\AYSKVAAMLHDRGLWAAIN NAGVLGFP\TDGELLMTDYQR CMVVNFFGTVEVTKTFLPLLR* SKGRLVNVTSMGGGAPMERLA SYGSSKAAVTMFSSVMRLELSK WGIKVASIQP/GEGFLTNIAGTS DKW\EK\EKDILGPPPLRVQE DYGQDYILAQRNLLLINSLS KDFSPVLR\DI\QQAILAKSPFAY YTPGKGAYLWICLAHYLPIGIY DYFAKRHFGQDKPMPRALRMP NYKKKAT
19226	49594	A	19338	1	861	
19227	49595	A	19339	248	930	DVHQLGNMAVIHSHLWEGLQE KFLKGEPKVLGVVQILTALMSL SMGITMMCMASNTYGK*PLFP CISGYTIWGSVMFIISGSLSIAAG I*NTKGLVRGSLGMNITSSVLA ASGILINTFSLAFY\YSITPYCNY YGQPPN*LSMGTMShLKGWV MGMVLLLSVLEFCIAVSLSAFG M*SALLVPPGGGCVNSAITFFT WAETASSTTLNEGLRGTQRFNR QMLPEIYA
19228	49596	A	19340	167	1164	RNLRLPSSALAGVAPSHREPRV RTISQTDRRKDA/PDPARRDRVE LAPAYTSPPRCSANVTSTRRL RALCPARVRAPLRLPPASSPLG SEEQRRKVPAAARMRPRAGAG RSTLPWLPAT/WPGLPSLPLYL* ICGGNNSY*R*RKGEQFE*RNSS *DYRYLPSSPASPNVRERQPN NGPDDKEKDRPERPSPLDTSPL LDPPAVSDIAGKMSDEFSLADA LPEHSPAKTSASYPDHMLVPTD PAAAGPLGPWGSMSGPWVPG MGGQYPTPNMPYPSPGPYPVPP PPQASGAAPPVWGTVPGLGAW GPPAPYPAPTGSYPTGLYPTPS NPF

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19229	49597	A	19341	2	716	SDPSPLLDPTAVSDIAGKMSDE FSLADALPEHSPAKTSAVSNTK PGQPPQGWPGSNPWNNPSAPSS VPSGLPPSATPSTVPFGPAPTGM YPSVPPTGPPPGPPAPFPSPGSC PPPGGPYPAPTVPGPPTGPYPT PNMPFPELPRPYGAPTDPAAG PLGPWGSMSGGPWAPGMGGQ YPTPNMPYPSPGPYPAPPPQAP GAST/ILFHGAPPPGAWGPPAP YPAPTGSYPTGTLS*FPPGAW GPPAPYPAPTGSYPTGTLS
19230	49598	B	19342	54	178	
19231	49599	A	19343	3	249	RHKGSPSPHQTQEPSWLHPVDP ALGPQVELPASLVLCARTPQPL GGR*DWV/PGTPAGPQESRAAP VPASAPPSTPRGRGGRI
19232	49600	A	19344	2	504	WAPVRPEPPRRAPPAPQRPVP STTQGLRSAGA/PAPGLAGSY CSPGYVNAPIDSLYLATFMGIR VKRPPNR/PLCEQ*SFYHLGAGE *PGKSRVPIQFQSP\GDPTVRV V\PRR*SVPTSCATPRSWCCSD TPGHPLGSPEQLPQPGPAAELP GGVVRSTPPCPAL
19233	49601	A	19345	3	335	
19234	49602	A	19346	2	447	CACTPQPLGGRWDWAPWSRG RRSSGRLRLHRNPRRRGKAQA WRAAVPRPAPREGS*GPGRPAA PSAGPPSPRPPGTPAGPQAPRAA PVPA\PRLPPLPAS*GSGLRPSP AQKGAPTVQ/PVG*RAPQVPPK WEPRQRRRRERARAVRTA
19235	49603	A	19347	108	729	QHAGSPQSPRLLSAPPLGLPL WWHLRSPSAPPLHCGSPFLGWP RLEPTPSACREVWRERHKWEP G/PACGACGPAGVPGGRG/PWW APHSEHPASPAGPG/PMGNLAP GPVAAEGLSPPAVPAHRRCAR FLAGP*L/PFPRGRAWDLQAM PEPPT\PPWAPV/PAEPP*RAPP APQRPVPS\PPKGAQDWQAAPP AAPVRDPLGEASWAPE

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19236	49604	A	19348	1	816	MWESLTLRDFLNGFDQNADS GIDNKVQVEVASDEDEELVGN WNKERENPFSGEKLPAAEICIS YKEPNANHQDNGENVARACQ RPLQHPLPSQAQRPRRKQRFPG PGSGPTWDLVPCIPGAP/RLD*K GPRKPKSWYSEGQRYESPSFGIP LGSDLF\PTNALLKPYKLPPSR PRDYCGRAAFPRGRVRDLQPA MPEPPT\PPWAPVRPEPPR*APPP AP/PAPSPIDHPRAEECEHTAQD WQAAPPAAPVRDPLGEASWAP ESGGDVESLYV
19237	49605	B	19349	4	669	
19238	49606	B	19350	1	930	
19239	49607	A	19351	170	444	
19240	49608	B	19352	1	1122	
19241	49609	A	19353	1628	3591	KGLRLKLCFSVQLRFSIRNFRLG ILTYWKKEFEIVGWPRLEPTPL ACREVWRERREREPLRAALA GQLEFRVGVGLAGPSLGAAGQ PCWPRVIRDLAPGPVAAEGVLG PPAVPAHRRRCAGFLTEP*LPSRG AGLGTCSPPCLSLPPTPWAPVRP KPPQRAPPAP/PAPSPIDHPRAE ECERRAHDWQTAPPAALVPDP LGEASWAPESGISDEYITPMFSF YKSIGELKMTQEEYALLTAIVIL SPA WATERHPVFKKRERKKPSN CLEGVIAAAELAVGLPWNLG KFHTGDGTSAGLQGIAPNSVGP GQPAPEWMWGWERLLTDQDK TQGSASFCTATFQDAQKQLLQ ARFIHLSGLWEQQDGLWLSNW LSLKGQIGGPALTEPLRLSVNR GTWPPKLRDARRRSAGRADDR APTGRVLPGSPGAGPQTTPPPY DWSLRNRRRPAATDPEAQAAA AAA AVGQGRVGAQIEPSCRPA GRSDPPAPGPEAEVCWVSRLRE PVRSAFAWLRQSRALIGSWGR QGDVAPAFTCPPNAERGATGV RGGWGCWCGRAGLGRDPAA TRPALNPERYQSPKSMQGLERP HVRNWGIELETLRDAFRPQPSV WRTARGEAGKRKGRLVECLGS QRKVLEGVLLYAVTRGSFPNLF
19242	49610	B	19354	1	412	

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19243	49611	A	19355	951	1453	FQTQEPSWLHLVDPTPGLQVEL PASPVCAHIPQPLGGRWDWVP WSRGWCSSGRLGPHRSPWSGW EAQAWQAAGPEPCPMGRQVRP GEKSSAVPVGQPG/SGHSVHPP QPLARVLSPLPGASRAGRLLR VWGPPSPRPPGTPAGPQARHTA PVPARASPSTPPCKLR
19244	49612	A	19356	111	658	LPSRGAGLGTCSPCLSLPPTPW APVRPEPPQGAPPA/PAPSPID HPRAEECERTARDWQAAPPAA LVRDPLGEASWAPESGGEPTPS GPGVAGSGSTHHTHACTH AHTRAELRLPPPPRLPPLSPP /PPAPLLPSKPFSLSTDRISSKS R QKVPFGRDPEPRGVVAGSW NRTTH
19245	49613	B	19357	1	552	
19246	49614	A	19358	1299	1813	AHFPRAGTGAACSACWPAGVP GGRGLGGPRTRSSRPCWPRAK GDLAPGPAAEGVLGPAAVPA HRRCARFLAGP*LPYHGAGLGT CSPPCLSLPPTP/SGSCAPEPPRR APPPAPRHPVPSTTQGPWETC LLSIYGNAMNDERAWSLEGFW VLKPSDSWMTSLERTISFF
19247	49615	A	19359	380	905	WIPHWGCRWSCPLVLRRAAF LSPWVVDGTGRRGVGSGAGRG GSGRTGAHGVGGRLRHGGLQV PSPAPREGS*GPARNRAQ\PGGP ALLGDSVHPPQPLAQVLSPP\FP GPAGLAGCSECRGPPSPRPPGTP AGPQAPHAAPVPARASPSTPPL VHLTNDVLRVKVKAFFFTLH
19248	49616	A	19360	1	1052	MGLAERCPLNHLTLTVSSVKCS FLLAHILSVAGACYGVLRGAPH TFPGITCPGCSQENNPICKWAE DLNRHLIQEDTQMANKHLKDA PHRYIIRELQVKPTMRYCHAPT GVAHIQSTNTPNAGEDVEHQEL TFIADGSPVTTRGHMDLVQTS SRTLGVIRSTGSWSACAEFSHG Y CLAKRLLQLKHGNGNSNSGG NAECITRHCQKPLTGILSFILAL NKVKNTNRPDRCHSEGSEKEPS FCVTCPRRPEVNQPSYMPQPG KSSTHLSVVQLRALEVGEQAF PPVE/PEGPAGLRHPLWL*V*GQ GSGP/SSPPCLSLPPTPWAPVWP EPPRRAPPPAPQRPV\PPKKG

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19249	49617	A	19361	417	1092	KWCSKRTAFSFLQGGVEGEA RAGTRAACGACGPAGVAGRRG LGGPPHSGQPASPAGPG/PVRDL APGPVAAEGVLGPPAVP/APPA LCSIS/PPGCSCLPAG/PRLRTCSP PCLSLPPPWAPVRPKPPR*ATP PAPRRPV PST/NPRAEECGRTAR DWQAAPPAAPVRDPLGEASWA PESGGDVENLYVQLRDCKYTN QHPVSSSGFVNAPISTLYLVNL VGTWRIFMSS
19250	49618	B	19362	817	1596	
19251	49619	A	19363	350	644	
19252	49620	A	19364	60	1362	SRVEPRVRSASQDSRSRDNGPD G\MEPEGVIESNWNEIADS\FDD MNLSESL\LRGIYA YGF EKPSAI QQRAILPCIKGYDVIA\QPQSGT\ GKTATFAISILQ\QIELDLK\ATQ GLGS*APT/RENLAQQIQ\KVVM ALG\DYMGV\AS\CHACIRGAPTC VAEVQKL\QMEAPHIIVGYPLG RVF\DMLYR\RYL\SPKYIKMFV LDEA\DEM\LSRGFKGQIYGHQ KAQAAPPRVLLSATMPFD\VL EVTKKFMRGPH/IRILVRKEELT L\EGIRQ\FY\NVEREEW\RLDTL CDLYETPDPSQASHLPSTTRR\ KVDWPHPRRMHALRFPWESAQ HEDMAQKERR/DVIMKEFRLAS SRV\LITT\DLLA\RGIDV\QQVSL SHQLNY/SFPTTREN\YIHR\IGR GGRFG\RKGV PINMLTE/EKTKR NLEDIETF\YNTS\IEMPLNVA
19253	49621	A	19365	911	1278	NCGIVISKHLVFTLA*MMCHFL ASLQRKGILKRSASV*AHSH/DP SFHMKIYNAGW\GHR T*HPAGG FAGPPPWGSVWGLAARTRENA PRPALPLPRPAPSGLAHGADGD SNTEKIQSRDNRKG
19254	49622	A	19366	26	743	ETSADMAPSVPAAE\PEY PKGIR AVLLGPPGAGKGTQAPRLAEN FCVCHLATGDMLRAMVASGSE LGKKLKATMDAGKLVSDMV VELIEKNLETP LCKNGFLLDGFP RTVRHAEMLDDLMEKRKEKL\ DSVDLNF SIPDSLLIRRITGRLIH PKSGRSYHEEFNPPKEPMKDDI TGEPLIRRSDDNEKALKIRLQA YHTQTTP LIEYYRKRGIHSAIDA SQTPDVVFASILA AFSKATS

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19255	49623	A	19367	40	1002	VASGTRTELQDRRFRDTS GDM FPSVPP*EPEYTKGIRTVLLWPP GAGKGTQ/SGETEV*MACSLGY IASNLQSLHLNDSKAPALSAAIY CPRHPNWAENFCVCHLATGDM WR\AMVASG/SSELGKKLEGNL WDGWGNWVE*WKVWSWSSF GEGILENPLVAKNGFLL\DGFP GPVKARQK\SPMDLMGEGGKE KLDFC*FEFSIP\DSLL\IRRNHKE GLIPPPKKWAGSYPRREFQPLP KEPP*KMNITGGNPLIRRSR**M KRPLKIRPASPTHTQT\TPLIE\Y YRKRGIHST\NDASQTPDVVFASI LAAFSKATCKDLVMFI
19256	49624	A	19368	793	1152	SGRKRRGCGGQSVKQAPALTP GPPAPVFPIPEAPAACAPHHPGQ GNRRKCNFPVCPT\PKTASSCP/ EPLPPPSLQR*PCCHPWHLLE FSFLDEVTFNFNKTFFKRLVSSK MLPLKVGH
19257	49625	A	19369	1	873	
19258	49626	B	19371	1	322	
19259	49627	B	19372	64	2250	
19260	49628	A	19373	20	368	CEARGGSGHGGRAERAGVCGG PAELLPGKSKEEQRDYVFYLAV GNYRLKEYEKALKYVRGLLQT EPQNNQAKELERLIDKAMKGD GLVGM/AIVGGM/ALGVAGLA GLIGLAVSKSKS
19261	49629	A	19374	3	492	
19262	49630	A	19375	62	570	GSRGQWPSEAVLNELVSVEDL LKFEKKFQSEKAAGSVSKSTQF EYAWCL\VRSKYNDD\IRKGIVL LAEELL\PKGSK\EE\QRGFTS FYLARGGGTTRLQGITEKALKL RSGALLAAQEPQEQPRPKETG NGLIDKA/L*KKDGLRGAWPIV GGMALGVLAGTCRSSSDFAVFQ

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19263	49631	A	19376	1	944	MACHLQAGSPGNLVVYFQSKP EGLRTREPMMSVPVQVKGPST RKLMMSEDPLTLGNWHELRS RTAKNGILQVDKQKIVEGMAE LQQVVGKNMDSGVGPVVHGG GLTRTG YLLNPESLQQKAFERR QIQGCDEKLACVGKQTLGTWP LSESPSLTRL YCRRQLTQGSLR MSLNNAGVPGQTAPDQSGEG VAAPAGPGEEVGREEGEGAAA GKRQCPCQQGS LCVDTSRPLP KSQAQIPSSSRSSPSSEQQRGQ LPSVREHVEGGQGEERAPHCD GGGRVLLASGLAWLG TENIMD LASSPKDDWGVA VPSRGCERPS TFTLVLPSPIVRRRACSGQPISP GGGQETHGADTSHLTNP*ICLL SKAFCCRD SGLSK*PVLVRPPPC PQALPQSPCSYLLLAVALPFPP LSSAYPPVRFHSLLEIHEARAS
19264	49632	A	19377	1177	1603	WVSSFSSSSSFSPPPPPPPPPPP PPSFLPPPPPP/PPI*DRARRCQQ TSIPLNKL NINKLLLLLSRPD DREKFTPQPQSARQREPIKGTA SRRGEGPICPTLSLYFLHVFLCF SCLSSQIH IYLRLSTVLVLIKNS
19265	49633	A	19378	1	896	FPFSLPPPKMPKGKKAKGKKV APAPAF\VRKQDAQE*WLNPLF KKRP*DFR\GQ\DIQPQKRPPPL L*KWPR\YIRLQR\QRAILYK\RL K\VPSAITPVSPRALDPANQLLS LLKL\AHKYRPRDKAQRSKQR\ LLA\RAEKKAA\GKGDRPNQRD PPVLRARS*HPSPTLVEEQEKL WVVI A\HDVD\SIELGLSFLA\AL CRKNGGSPYCIKGGKQDLGR\ LVHRKDLAPLVAFTQ\VN\SED KRRFWLKL VGSYQGP NYNDY RYDEIRRH WGGNVLGPKSVARI AKLEKAKAK\ELATKLG
19266	49634	A	19379	3	491	AKEALDWEEGHQ*DQRL*SRN SQLGICGGLRGFRGDRAASVFS R*AEKESVRQL*ARVPGALGVA ARANKHQR RWREGDSTQTATN TVDRRATRGRPM EWRATRVAD EEDGDRRRGDNR PQARTFRPRT SVRRAAGTNNSEGRPTNAGT NGGRGVDIYTVN

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19267	49635	A	19380	1	1501	MRRSTPGVLPAAVGGARVRRRA VGLSGTGAEAGRAGAMVEKEE AGGGISEEEAAQYDRQIRLWGL EAQKRCHRMKEALSTAPFTDK ETHPKVSLAQVTRSSASVMVY GAFEVIGQRQSSAAKPRRSQSE SLGPEFQGLWEWLPASQHIMRS LKKQDGMGQGYRVSLWEVVG QLIFLEEKVTPAEDPGAQFLIRT\ GSVGRNRA\EAS\LERAQNFNP MV/DMLKVDTEDIEKKPESFFT QFDAVCLTCCSRDVIVKNDQIC HKNSIKFFTGDVFGYHGTYFA NLGEHEFVEEKTAKVKSQGV EDGPDTRAKLDSSETTMVKN KVF\FCPVKE\ALDGWILDACDE MQMAALKRTTSDYILLQVLLK F/RVTDKGRDPSS\DTYE\EDSEL LLQ\GNDVLDLGLSPDLLPEDF VRYCF\SEMAPVCAVVGILAQ EIVKALSSAGTLP/PTTNFFFFR WA*KGEWGLWECLGPQVNSG FGQPQRCQLQHAHLYSLFPFM
19268	49636	A	19381	2	411	PGTSQGVFSPHRLGGAVRSPCP PPQDSRQASAGGAESQLKQRG FPGE*GCRSPVSCAWPQNRMG* GPQHREAGAWSGE*KTPIWLK QERCNRPGLLVTAELAAPAPRP DGMAPGCGGIRCTPGRPRLLH SGPPSP
19269	49637	A	19382	165	309	
19270	49638	A	19383	1	825	LATQPEGAGRVPSIHPQGGPEA ALQDLRTLMGSSRLHSGKESIG HNSSAGSSSQGPHHPRRKTAIL EKGKQKPHRMLPFSPGLGSSPE PANAGSPDTWLCPP/AAARVL* NPVKPRKGRSEPRSGWASQLPG GDSRLPLRPGTSQGVFSP/APAG *AGKLVLGVLSSLKQRGFPGE *GCRSPVSCAWPQNRMGCRTP GPSPTSPTAAGE*GSRPRRRKPG RVQGLQRDGPTLTQEDALTAA KRCPLPVTSPQTPETSTGAAA PGSQPVGAPPSR
19271	49639	A	19384	1	378	

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19272	49640	A	19385	381	1653	QRPRSGTFTMGRKSLYLLIVGIL IAYYIYTPLPDNVEEPWRMMWI NAHLKTIQN\LATFVELLGLHHF MDSFKVVGVSFDEVPTSDENV TVTETK\FNNIL\RVYVPK\RKS *STKEGGLFYIPCGGWRRGSYS LIVYDLPSSWTVE\RPGSSLVSN HL\RLAT*F\HFPLQLGELYDAL R*FLRKKVLAKEYGCEP*GESGIS G\DSAGRGI*LSA\VTQQL\DDP \DVQDPNFKIQS*IYPALSASWM *VLPSYQGGKFKFSYFYKSLQ\C RFWSEYFTTDRSLE\KAMLSRQ\ HVP\VESSHLFKFINWSS\LLP*E GLLKGH\VYNN\PNYGSS\ELAK KYPG\FLDVRAAPLLADDNKLRL GLP\LTYYITCQYDLLRDDGLM YVTRLRNTGVSG*LNNHVEG\ GFHGAF\SFLGLKISHRLINQYIE
19273	49641	A	19386	3	667	DAWADAWVPVSSEVAYLFGG CHTCGGLPVAHPMMPRGSRSR TSRMAP\PASRAP\QMRAAPRPA QVG\QPPAAAPPSAVG\SSAAAP RQP\GLMAQMATTAAAGVAVGS AVGHTLGHAI\GAFSGRK*LPE PARP*HHFNQEASG\TPPAQHSK QQRHPLQPCP\YEIQTVFWE FCPGTRGDIQAL/CEGFNEVLK Q\CRL\ANGFGPNEEVSTFGRD WKFSSHNL
19274	49642	A	19387	81	1257	RHQSDQTVPRLSRPHVQSQKSS MAAAAKPNNLSLVVHGPGLDR LENYPIPEPGPNE\VLLRMHSVG ICGSDVH\YWEYLS/RFGNFIVK KPMVLGHEASGTV\EKVGSSVK AP*NQGDRVAIEPGCSPEEN*W NSC\KMG\RYNLSPSIFFCATPPD DGNLCRFYKHNAAFCYKLPDN VTFEEGALIEPLSVGIHACRRGG VTLG\HKVLVCGSWANRGWVT LLVAKAMGAAQVVVTDLSATR LSKAKEIGADLVLQISKESQEI ARKVEGLLGCKPEVTIECTGAE ASI\Q\AGIYATRSGGTLLVLVGL GSEMTTVPLL\HAAIREV\DIKG VFRY\CNTWASGGFSLCVPKS V\NVK\PLVTHRVSWSRKVLEA FETFKKGLGLKIMLKCDPSDQN
19275	49643	A	19388	2	431	

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19276	49644	A	19389	2	326	ARGSTRLMESRVQHL*CTRKEL TPEVLQEWLDELEEMMLVVH MPRFRIEDGFS\KLEQLQDMGLV DLFSPEKSKLPGIVAEGRDDLY VSDAFHKAFLEVNEEGSEAAAS
19277	49645	A	19390	2	368	
19278	49646	A	19391	1	2123	MAQFSIVGMCLGLFNQSPDGS GVQLFVIMNQVMAANLAETHA ALCPTLSSGTSARFRGKNQFSG GLPQITLSPLAQPCGRLAAMYS NVIGTVTSGKSLPSTSPVPLLL SGFAPLFLKGLQNWQTQTQEG KSPSAAPASSQPQACPTDHVRE SALGACLSLPGEDGKIQKVYLL SLLLIGFWDCVTCHGSPVDICT AKPRDIPMNPNCIYRSPEKKAT EDEGSEQKIP EATNRRVWELSK ANSRFATTFFYQHLADSKNDND NIFLSPLSISTAFAMTKLGACND TLQQLMEVFKFDTISEKTS DQIH FFFAKLNCRLYRKANKSSKLVS ANRLF GDKSLTFNETYQDISEL VYGAKLQPLDFKENAEQSRAAI NKWVSNKTEGRITDVIPSEAIN LTVLVLVNTIYFKVLRMALERP QGLPLALQLTPFFFKWRDRSPE RANGLPKATQGLWKS KFSPE TRKELFYKADGESCSASMMYQ EGKFRYRRVAEGTQVLELPFKG DDITMVLILPKPEKSLAKVEKE LTPEVLQEWLDELEEMMLVVH MPRFRIEDGFS\KLEQLQDMGL VDLFSPEKSKLPGIVAEGRDDLY YVSDAFHKAFLEVNEEGSEAA ASTAVVIAGRSLNPNRVTFKAN RPFLVFIREVPLNTIIFMGRVAN PCVNLSEALAVLVVNLTTLMK RTHGESLDFMERKRRPAESILL

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19279	49647	A	19392	9	1630	PALCPTLSSGTSARFRGKNQFS GGLPQITLSPLAQPCGRLAAMY SNVIGTVTSGKRKVYLLSLLD SFGDCVTCHG\SPVDICTAKPRD IPMNP\CIYRSPEKKATEDEGS EQKIP\TNNRRVWELSKANF PLLLTTFLFSTWADSKD*H*LTF FCSPLSIFQGFL\WTKV\GACND TLQQLMEVFKF\DTIS\VEKTF*SR SHFFFA\KLN\CRL\YRKANKSSK LV\SANRLF\GDKSLTFNETYQ\DI SELVYGAKLQAPGTSRENAEQ\ SRAA\INKW\VSNKTEGRIHRC FPSGRPFNELTVLGGGFNTIYFQ GACWK\SKFSPENTRKELFYKA DG\ESC\ASMDVTREGKFRYSG AWLEGT/QVLV\CPFKGDDIT\ MVLILPKP*EGAWAKVEK\ELT PEVLAKSGWD*FWREMLLV HMPRF\R\EDGLQV*REQPAKN MGPLSD\LFSP\RKSPQTPPGIVA EG\RDDPPMSSDAIPRH\FLEVN EEGSEAACKYPLL*LPGRS\LNP NRVTFQGQQAFFWV\FIREVPL\ NTIYLHGAELANPCV
19280	49648	A	19393	3	737	
19281	49649	A	19394	1	705	
19282	49650	A	19395	2	757	
19283	49651	A	19396	1	1764	
19284	49652	A	19397	1	710	MAWALLLLTLLTQDTGSWAQS ALTQPASVSGSPGQSITISCTGT NNDVGSYNLVSWYQQHPGKA PKIMIYEVSKRPSGVSNRFGSK SGNTASLTISGLQAEDEADYYC CSYTSSRPD\VVFGGGTKLTVL GQPKAAPS\TLFPPSSEELQAN KATLVCLISDFYPGAVTVAWK ADSSPVKAGVETTTPSKQSNNK YAASSYLSLTPEQWKSHRSYSC QVTHEGSTVEKTVAPAEC
19285	49653	A	19398	1	679	
19286	49654	A	19399	1	743	
19287	49655	A	19400	2	736	
19288	49656	A	19401	2	718	

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19289	49657	A	19402	1	711	MAWALLFLTLLTQGTGSWAQS ALTQPASVSGSPGQSITISCTGSS SDVGGYNYVSWYQQHPGKAP KLIHYEGSKRPSRVYDRFSGSM SANTASLTISGLQADDEADYYC CSFAGSSALRIFGSGTRVIVIGQ PKANPTVTLPFPSSEELQANKA TLVCLISDFYPGAVTVAWKAD GSPVKAG\VETTKPSKQSNNKY AASSYLSLTPEQWKSHKSYSCQ VTHEGSTVEKTVAPTECS
19290	49658	A	19403	3	720	
19291	49659	B	19404	1	711	
19292	49660	A	19405	105	858	RRQDSGQSPAWPAGALLLTLLT HCAVPGSWAQSFLTQPPSASG TPGQRTVITSCGSSNIGINDVT WYQQVPGTAPKLLMYSDNHRP SGVPDRFSGSKSG\TSASLGPSV GLQSEDEADYYCGTWGLAA*M VFMSSAGGTTLTVTSQPKAAPS VTLPFPSSEELQANKATLVCLIS DFYPGAVTVAWKADSSPVKAG \VETTPSKQSNNKYAASSYLSL TPEQWKSHRSYSCQVTHEGST VEKTVAPTECS
19293	49661	B	19406	63	756	
19294	49662	A	19407	1	757	MAWTPLLLLFLSHCTGSLSQAV LTQPSSLSASPGTSASLTCTLRS DINVGSPFIYWYQQKPGSPQF LLRYKSDSDNQQSGVPSRFSG SKDASANAGILLISGLQAEDEA DYCYSSYVGTNNFGVLFGG\GT \KLTRP*GQPKACPPRVTL/FPHP PSEEASKPNKA\TLVCLISDFLP GKP*QLPWKAA*QPPSLAGVET PPHPTRSNNKYAASSYL\SLTP EQWKSHRSYSCQVTHEGSTVE KTVAPTECS
19295	49663	A	19408	1	224	YISLPAGVLSLACCTLYGISWQF DPCKYQVEYDAYKL*RLPLH TLTCSRPTDNRVFRSPHSVRQ QSLGRCLA

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19296	49664	A	19409	235	955	ESTVQVSFCHRVPARTSSQTA LPVLLGLLGFTVSGPLNLPEPSV IVGNGELVGPQTCLHCGMEIYN G\ENAQ\DQF*VTELGAGP*EGP VTSYIVIE\PTRIGDETARWITVG NCLHKTAVLGATALLLHPGLR CTLRFIPHHISPAPLGVL\SLACC NL\YGIS\WQ\FEPFACK*QVEVR TPNKLSRLPLHTLTLLPPRVVLV RKDDLH\RKRL\HNPIGTGPPLV YCVK\KIYELYAVMIFK
19297	49665	A	19410	1	764	MRLGIGFACPWKGLADEFDLKI EKQRNQGRLLGFKLQHLVPFTE MEKMGGDRQKHRTAPRQAER RRSGRVSFQPPLQPLDVTLLPG ATREGNCPRASRGRRPSPISHCQ ETQGPEGRSDCTIRGVLSSIPAA RPLRKSGSFPTVCEKRPEQGQQ PALGP/AGPAAVPAPAASTQW GSRPCGAGARRGYWRGLLGL CNLISPLDPGSPGSGRWGSAGA LSRPADSCPPWWPRAGA*RRG AAAEAGNSPSRCGASRPAAEQS GAFAGPLPSSPSQ*RAPGAEV
19298	49666	A	19411	209	536	TRSSCVTLVC*LAMVSLRVARP HGVPGTMFGRKKRVEISAPSN F/EHRVHTGFDQHEQKFTGLPR QWQSLIEE/SARRPKPLVDPACI TSIQPGAPKEVCSPRASGTRSR
19299	49667	A	19412	124	1983	
19300	49668	A	19413	424	1582	PPWAAVHGDRPHRVPGTMFGK RK/KRVEISAPSNFEHRVH/TGF DQHEQKFTGLPRQW/QSLIEES ARRPKPLVDP/ACITSIQPGAPK WGETGSWPPF/RHLPEG*HGPI PGCQREPQRVSHEQ/FRAALQL VVDPGDPRS/YLDNFIKIGEGST GIVCTPPSGKLVAVKKM/DLRK QQRRELLFNERPWQCP*HP/RR* EAQVPLPVLQALSV/LHAQGVI HRDIKSDSIL/LTHD/GQVSKEVP RRKSLVGTPY/WMAPELISRLP YGPEVSPGWLGCPAVDSVRCH FQLQRWREMGPSLGSHCQNGA LDKEEGQRPSHTGSLQWGS LG VERTLRVNMYECVHACNSFYL VNKLFQKDSTQEASVTMVPDP DKDGKNRASQKRKAHSQGARR

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19301	49669	A	19414	488	707	TCGEGLSWTRPLPTASSLQV\H* SLSAGERPYLCDYPDCGKAFVQ SGQLKTHQRLHTGEKPFVCSN GVNLVF
19302	49670	A	19415	16	454	GPAGRCPADCSEEKEGPSA/GD SGRPPSCT*PWKGLPVMAILPG EAPVPGPGWPEPDAGGPLWR WGSPPCAAALHRP\SGTTPPGR ALSGPGLERAKQRSPRVSPAPR AAPHGHPHCLPIPA GPRPAKD HPAYGPPASCHHHLAAS
19303	49671	A	19416	166	1191	TAGSLVLAARGT*GPPPRARK* GPAGRCPADCSEEKEGPSAETP GTTTPPGRALSGPGLERAKQRSP RVSPAPRAAPHGHPHCLPIPA GPRPAKDHP\PTHQKPPPRTEGS TGGHCCGPPIFLIPNTSMLTVYP SGPVMPAGFTLSPSDTRPSLLN GQEVLRKMNGAVQYLSLCDYII PTCQCLATTVLCVSMSLTVFA VSYMVELLLLQNAQVHQLVLQ NWMLKALPPALQDPPHVPVRV PRAARTRLPAV

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19304	49672	A	19417	1	2481	MRSGLKFGKSAAWPSGQKEK LVFRGKIEEGLEYLHKKKPSAN SQDNGKEASKAFHGPLQPLLS QALGPDREEWFPGQAPWPHCC VHPQDTAGCIPVVPAPAMAQR CTGTAWVTASEVAPSLDCFHIV LSQQVYRIHRPTSSLHPQYGKA TRHTTPAVSMRAAAGAEPCKA TGADWPKTLGAQPSHPCTMDV GQGFKKDDSGAALAPMAALM GWAGIECLWLFHTEGVNCWP WDLGEKNGLLGQPRGPAAVCS LRTLLPASQQPQLLLRPWLKDA QVQLGSLQQRVQAIGLGGFYIV LSQFIDPSKASYPPWVKNSRHS TAAQPMRAAAGAHECHKATGA ELPKALGAQPSCPCVLDVGQGF KKNDFGAVGLNNWPAGFWNV MGTCKSRLCFVLLSGKKSSFRV EVLQCLDSHTLETYQFYNREV AFEDVLESSQTGLVVQKPQDR LTKRGRGEATRNLRGLVPSMP RSLLPSTAQPTAWKCQRGPSPY THQDMALIPSPTARCLSPAKEP KQEEVGEKSLLPDPTLPLTDPR LTGSTEQAHAEGLAALMSALR VSHLQGRGGVVTLVDSQLGVI AVSSTQFNKGPSYRLLADVQN RLLPKYDSQKEAELRSWIKGFT GLSIRPDFQKGLKDGILCTLVN KLQPGSVPKINASV*NWH*LEN LSNFLKAMVSYGM/NPVDLFEA

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19305	49673	A	19418	1	1299	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCQ RAPSPYTHQDTALIPSPTARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSSTQFNKGPSYR LLADVQNRLLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKIN\ASV *NWH*LENLSNFLKAMVSYGM \NPVDLFEANDLFESGNMQRV VSLLAGAKAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSGQVFGLGRQIYEPKY QPGGPVAHGAPSAGNCPGPGGE
19306	49674	A	19419	135	290	HREEESKSSVFLNPRGVQGTGV GDHRMILGRGRAVLSKE*AAG PRGGRHES
19307	49675	A	19420	92	1058	KGQYLNPNRGKGGPEPPFEPV PPASRSDMAQNLDLAGRLPA GPRGMGTALK\LLGAGAVAY GVRESVFNVE\GGHRA\FFNRI GG\VQQDTIL\AEGFHFRIPIWF QYPH\IYDIRAKTSKKSPLQGS KDLQM\VNISPAKCWSRPNAQE LS*ACTSRLGLGLTRER/RCLPSI VNEVLK/AVWVAKFNCLTA*FT QRAPGYSLDSAGSLTERAKGL SSLIL\DDVGQSQKLSFSPRSYT A\AVEAK\QVAQQEAQRIAQFL\ VEKAKQ\EQRQK\NLQGRG*GR GLPKMLGEA\LSKNP\GYIKTSQ RFEPAPEIILQRRIAHIHRNP
19308	49676	A	19421	3	861	LDDSWEPVHPGCGDFICQWSEE SGLWSTA EVWRERRGREPLC EGARGTARVPGGRGPPHQSGQ PVPPAPGS*GA*\PGPAAVEGVP GPPAVPPASAALEFSRGFSCLPR CHLVVTKIGKQEDDVSIKRKNR PDYWPAPPEPVAGCEGSDQEQV KPNATLEKHFLTEGTGPRSPSC LSWPPSGPHAAADPAMVPETPE PDRPQLTKKFCEARVMAVGTS NVLGQTLKPSRTGGTSWSWVF YLLTANRLPFDVKKRGGGPSSI KPRPHYDHRLLQDFKEQVIHFF

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19309	49677	A	19422	808	923	
19310	49678	A	19423	1	339	
19311	49679	A	19424	1	621	
19312	49680	A	19425	3	1836	MAAVEAAAEPVTVVAAVGPK AKDEEEEEEEPLPPCEA/LRWAP VLWRGPAWATAFLEEATAEEP GAAPGSPDSDPRTLRLRAER RRLDS/SLALSSDFAQVQFRLR QVVRGAPAEQQRLLRELEDA LKG/IPDILGYEGPGDPASDEGD GLPGDRPRLRGEDQSEQEKQER LETQREKQKELILQLKTQLDDL ETFAYQEGSYDSLPPQSVVLERQ RVIIDELIKKLDMLNEDISSLS TEELRQRVDAAVAQIVNPARV KEQLVEQLKTQIRDLEMFINFIQ DEVGSPLQTGGGHCECKAGGK TGNGCSRTGSSRTPPGNSRTKA EDVTKVRKTGLHLMRRALAVL QIFAV\TRLVVPQARSLQPCGRG SRLTETTLP*\R/ELEASVDRVK QLALTAEPHDHVITSANLQDLS L*GKDELTMAVRKELTVAVRD LLAHGLYASSPGMSLGMATIA* LLPAFSSVPEAMHPREL FVKYY HAKNGRAYVESPARKLSQTFA LPVTGGTVVTPKQSLTIAH MV LTEHDPFKRSADSELKALVCM ALNEHRLVCWMNLICKSGSLIE PHYQPWSYMAHTGFESALNLL SRLSSLKFSLPVDLAVRQLKNIK
19313	49681	A	19426	366	477	
19314	49682	A	19427	3	432	WNSRDAGYEFDICFTSVHLY\AI RTLWTVLDAIDQMWLPVVRT WRLNERHYGGLTGLNKAETAA KHG\EAQVKIWRRSYDVPPPPM EPDHPFYSNISKDRRYADLTED QLPSCESLKDTIARALPFWNEEI VPQIKEGK\RVLIA

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19315	49683	A	19428	1	890	MRTRRTPRGEHSLSAFSSCVDK ISRVCKSFGLELENSIQTWLAER EQSICLVAAAGHLVSSSGMRNW CHARRHAAAYKQVLIRHGEVAW NLENRFGGWYDANLNPAGDEE AKRWEQALPDAGYEFDIC/FKR TIRTLWTVPD AIDQM WLPVNV SKDRRYADLTEDQLPSCNSLKD TLARALPFWNEEIVPQIKEGKW SDHCLGALVIPVKDGCNLHGD VTTVSSLTPEERALEEPLNRPTN A/P*HQEG*CWESHQKPVFPQT LGCLCEFSRGASRRKQARVVFR ERSNLCRSISGGEGF
19316	49684	A	19429	1	443	RALPFWNEEIIIPQIKEGKRVLIA AHGNSSGAIVKHLEGLSEEAIM VLNLP TGIPVYELDKNLKPIKP MQFLGDEETVRKAMEAVAAL VCVLESLPALFHGSEMP LGPVQ VYLSLISESCSSCLT LPHGSSVH LSITVLNPF SISV
19317	49685	A	19430	24	1039	AVLALLRGRRGGLLRNLLIPV GAASPARRQWPPYKLV LG\RHG ESAWNLENRFSGWYDADLSPA GHHEAKRGGQALRDAGYEFDI CFTSVHLY\AIRTLWTVLEMP\A SEM WLPV\RTWRLNERHYWG S*PGLN*KQKLA AKHGLRPRLK I\WRRSY\ D\VPPPP\MEPDHPFY SNISKDRRYADLTE\ DQLPSC\ES LKDTIARALPFWNE\ EIVPQIKE GK\RVLIAAHGNSLQGHCSRL EGLFEEAIHGSLNLPDLVFPLSI ELDKNFESLSSPMQFLG\DEETV RKAMEAVACPGQGPRSEGRRG RILSPGCTLPCPVFVPSSPSHLA HVTLDHICKTS
19318	49686	A	19431	86	431	VYVSTMSLSCPASELAVRRQR WSSQFQDHPG PLQPRPV*EML LL*PTLDLQPVVPPAVAILSWKP SALTISSQIVTPGLKTRSFTRKT FMKIWNHRQKYQKTMLVMFP RYPSL
19319	49687	A	19432	599	900	ATWLFISPITTTTCQLSKTLLVPL NFLEKQYLTFLLFLEFPTFSLFF RHTEDHLMRSGCLKVCSISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19320	49688	A	19433	210	341	HFRKIFTVFQKLKVEYNLLSGH STQQSHPGGTVLL*DLVCPVV

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19321	49689	A	19434	239	464	SPKGGPPNPSHGTFHTRPCEE TTKQALCEEHGCLFHLGAGGLS PKRESAKGDKGGASVHVVCHI S*SPCS*LGP
19322	49690	B	19435	1	838	
19323	49691	C	19436	80	443	
19324	49692	A	19437	1	775	
19325	49693	A	19438	209	469	
19326	49694	A	19439	304	375	NVGE*SERHPCYD*TPREVCPPS P
19327	49695	A	19440	879	1188	
19328	49696	A	19441	615	917	ATWLFISPTTTTCQLSKTLLVPL NFLEKQYLTFLLFLEFPTFSLFF RHTEDHLMRSGCLKVCSISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19329	49697	A	19442	674	1554	GQMASSSVSLQQGVPAADPG WVTAGASLTRA WAAGVQGDG PGTESSISASSRRVLR LGMTRTL LWACVLLWVCILLGLCPAVG PVS\SVGPVSYCGVPYCGPYPA VGPCPAVGPVPCCGPYPVS/VGP VPCCGPVSCCGPVSCCGAVSCC GPVS\SVGPVSC/VLGLCPAVGP VS\S*CGP*PAVGLCPAVGPVPC CGPYPS/VGPVPCCGPVSCCGPV SCCWACVLLLGLCPAVGPVS\S VGPVPCCGPVPCCGPVSCCGPV S\VVGPVSCCGPVSCCGPVSCC DHSSHLLLTFTML
19330	49698	A	19443	4688	4824	

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19331	49699	A	19444	1	2274	MLKPLMGGGAHRRAAAGARK WDGTAAHASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTGQEFDVRAKCVINATGPF TDSVRKMDDKDAAAICQPSAG VHIVMPGYYSPEMGLLDPAT DGRVIFFLPWQKMTIAGTTDTP TDVTHHIPSEEDINFILNEVRN YLSCDVEVRRGDVLAASWGIR PLVTDPKSADTQSISRNVVDDIS ESGLITAGGKWTYRSMAEDT INAAVKTHNLKAGPSRTVGLFL QGGKDWSPPLYIRLVQDYGLE SEVAQHLAATYGDKAFAVAKM ASVTGKRWPVIGVRLVSEFPYI EAEVKYGIKEYAC/DCCGYDFT SYSPGLS/EMSRQQRKPYPGLL N*/CGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSIDRYKRRCHKFDAD QRGFMTVVEVQRVLESINVQM DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQKGRVSGSRLAI LMKTAEENLDRRVPIPVDRSCG GLYFCVRNWWVLGLTDFKNE AADPSGVKLQTFTVSVTARKGS VDPKNSGAQLASPSGSRTGAA GGAACQSRALRLHSSALGWSM GLGAVEHGAVLIGEARAAQEP MEGVGGSGMAGCRSQVLPRG
19332	49700	B	19445	439	1542	
19333	49701	A	19446	2	418	CLSLPPTPWAPVRPEPPRR/CAT PCSTAPSPIDHPRAEECERTVQD WRAAPPAAPVRDPLETGKIDQE IHKYNTPGFTGCLSRVQFNQIAP LKAALRQTNASAHVHIQGELV ESNCGASPLTSPMSSATDPWH LDHLDS
19334	49702	A	19447	111	215	GTCWELE*RGKGPFWGEIKAS CRNLHKLQGAKC
19335	49703	A	19448	740	959	DLYPHHLSWQSRNAARKRKS* RGQRPIPAIS*GR\SQKQQQNVN TSTPSHCPRLPYECRPLLHGAQS HRPPKG
19336	49704	B	19449	260	508	

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19337	49705	A	19450	11	490	RLSTSPDSDGAQLASRSGSHTG AAGGAACQSRTMRSHSSALGW SMGLGAPLQRH*INSSGGSWLV DKESFPVPSALNFSPLGRKSSPC SKVLYMPNPVSHSMIPSGSERS MDTNGSCWYLTCSLSAPGRRD TRIRKVFSQGRLLVLTLMISPSV GHSTA
19338	49706	A	19451	42	263	SGVSPMSFNTFTSAPAFNRSWT TCLCPK*HARCRGVQPKLDLLL PLQLMSAITSFLAMVSNCLTSS ALPFLA
19339	49707	A	19452	662	1564	GSRICSFQTRSGHPECQCHWT RQNHSSIQPHKAAAYTKKTTIH PPNRSNSCSSIWCKLQKLYMCG P*GRSFNFSANLHQPKGHSGE RPFÆKNKGRAILLKSHRVHTQE MPFPCSKVGKGYLVSSGLFQH QAIHNEKPCRSAMYGDMFHTQ QGHFKCIDYGEAFSPKDTPGQH QIIHTGEKPYVCTECEKTCTRSS NLIQHKPKGLLSLLVLSPTGN ALFSTLSQLTQLLLTFDVRSDA TFFRKSGSRHQLWLALPEDAR ARVTSVSGTRRRDHGGARGVV CLIHGCVPDTRSSPDVW
19340	49708	A	19453	1	1167	MIREQKVKEVYICAGKKKSHM HLWHNGEKYNRLGRKDRKMT HEGWLIKIPHPGRKYKASGLH WEQMKHMGGRGKVHLEFTEM YVAGRRGEVKDEVLEPMSLTE VYIPTENDREVWRERRLRAPGL CAALEGQLEFRVGVGLAGSAL EAAGQPCWPRAGRARDLQPM PEPPASVGSCAARASLRSAAP CSTAPSPIGHPRAEECERTAQD WQAAPPAAPVRDPLGEASWAP ESVMWPPLDSRQSEEVSVSKRH MDATDKIKFPWLKEKRTIEFGE AAGYVCHRRYKDMEPHEKMG EAAKKVHWVQMRSRARDLQP AMPEPPTHSGSCAARASPT/T HHPLLHDAQSHRPPKGLRSAGT WRGTGRQLHLQPQCGIHWVKP AGLLSLL
19341	49709	B	19454	118	559	

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19342	49710	A	19455	26	813	LSHYLACSLRLPSGSRIRSAWLI PSIMLLNYTSPGLPRHRSKSEN LDDTARRSPGMAGPGCPPLPGG VPDVRAAYGAPTSARPRVGV PPGGRWPRGARGARSFLKKPFR GTPTQVRGAWQCPPPLTV\EK *PWHPGCRFQGRRHEEKGGRE LGHSKSPPPRRSHYPAGEKGEE ERKEREESSCAGLRRGAHEHA QGQSLPGELPAPGDPHPGRCVG GQGRSRMGPCS*SLAQHPPVCT RGQREKQERRATNKPVRGAPK
19343	49711	A	19456	497	756	TWLKSGISFPFALFTIAKTWR*P KCPSMIDWIKKMW/HIYTM EY YAAIEKDEFMYFAGTWMTLDT VILSKLSQEQT\KHRMFSLISGS
19344	49712	A	19457	100	819	EWSSVRRILVEKRALRRP HQC LCFRMKTILSNQTV DHSQKNV DITLKGTPQ*SCKGPRGT L\RD FN\HIKCGTSALLGKEQ QRGFR VD\KWWGNRKGNWATRS GLF GSHVQDHDPRGVTTGAS GYKD EGPVYASPSPHPTVVIP GRNGSS LLKSRNFLG\EKYIPQGF RMKTR VLLCSVSQSPEKMKLILE \GNDI\ ELVFKFQRALIQQ\ATT VKNKG\ IRKFFGWVSM SLEKGT VQPGLI
19345	49713	C	19458	395	574	
19346	49714	A	19459	1	1476	
19347	49715	A	19460	2	323	
19348	49716	A	19461	539	711	HRPFPQDRKAGECLLHEYEDLV PIRDTLRLFPGGRYLPRAKHVA PSEPDPGWLVLG*FYC*FCHSP ALLSGFCLAVNVYRERSV
19349	49717	A	19462	66	2873	SARTISYDYYQNWGRDGGPRSS GGGYGGGPAGGHGNGRSGR GGGGGGGGRG/WQGPASRAPE RPRNRHVREKTGAEEQGSWR GKREL/LVHMDERREEQIVQVL DSGQAENG*RVRTTDF\RFAP E DHGYGTEVSTKNTPCSENKL/G HPGKEVDKSRKKNV/SESGTDH ILTRDSEYLLQENEPDGTLDQK LLEDLQKKKNDLRYIEMQELV NLIDNHQVTVISGETGCGKTTQ VTQFILDNYIERGKGSA

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19350	49718	A	19463	1	2112	FRKTTRRLRKVKGRTAGCARF RKWLLRQHGLRTLGLICNHTSR MTRCRWSAESDSGDEEEEGPIV LGRRQKALGKNRSADFNPDFV FTEKEGTYDGSWALADVMSPL MKKRAATTLHEKIEKARKRRK TEDKEAKSGKLEKEKEAKEGSE PKEQEDLQENDEEGSEDEASET DYSSADENILTKADTLKVKDRR EEEEERTGSRRI*RCIS/ATMKT SSFQDMNLSRPLLKAITAMGFK QPTPIQKACIPVGLLGKDICA/C AAPGTGKTPPFALPVLRLIYIP SPGSSL/TRVLVLVPTRELGMQ VHSVTRQLAQFCNITTCLAVGG LDVKSQEAALRAAPDILIATPG RLIDHLHNCPSFHLSSIEVLILDE ADRMLEDFEYEQMKEIIRMCSH HRQTMLFSATMTDEVKDLASV SLKNPVRIFVNSNTDVAPFLRQ EVIRNRPNREGDREAIVAALLT RTFTDHVMLFTQTQKKQAHRMH ILLGLLG VQVGELHGNLSQTQ RLEALRRFKDEQIDILVATDVA ARGLDIEGVKTVINFTMPNTIK HYVHRVGR TARAGRAGRSVSL VGEDERKMLKEIVKAAKAPVK ARILPQDVILKFRDKIEKMEKD VYAVLQLEAEEKEMQQSEAI NTAKRLLEKGKEAVVQEPERS WFQTKEERKKEKIAKALQEFDL ALRGKKKRKKFMKDAKKKGE
19351	49719	A	19464	354	446	RQHAH*ESSPLPNLTYPGTQILR KAAGTSA
19352	49720	A	19465	42	388	
19353	49721	A	19466	177	497	
19354	49722	A	19467	271	773	TAMSSEEGKLFVGGNLNFTDE QALEDHFSSFGPISEVVVKDR ETQSRGFGFITFTNPE/HASSC Q*RSQ*TGEVSWNG/RQIPLLDH AGKSCSGEPRGRWALGPMGVG SQLILEVVDQGYGSGRYYDS RPGGYGYGGRSDYNGRNQG GYDRYSGGNYRDNYDN
19355	49723	A	19468	2	414	GRVGPPRRAGGPRASAAGDPA RGGAAPKMSQTAMSETYDFLF KFLVIGNAGTGKSCLLHQFIEK K/WSVTRSYRGAAGALLVYDI TSRETYNALTNLWTDARMLAS QNIVILCGNKKDLADREVTF LEASRFAQEN

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19356	49724	A	19469	397	445	GHRGAHRPRTLRSVVVRRRAHR CSYSGIWD/TAGPDRFRSVTRSY H*GRPGALLVYDITARETYNAL TNWLT DARM LASQNIVILCGN KKDL DADRE VTFLEASRFAQE NELMFLETSALTGENVEEAFVQ CARKILNKIESERMGSIGIQYGD AALRQLRSPRAQAPNAQECG
19357	49725	A	19470	2	559	
19358	49726	A	19471	1	483	
19359	49727	A	19472	95	352	RKATKMATIWASGTPKQPCPR ELLAQERRQTRTRYNQ*DQ*QE RRSRQRIMGVGCLHMLRSEKA PQQRSAHCTPKSSRPSARLT
19360	49728	B	19473	247	1364	
19361	49729	A	19474	422	877	CHTQTQ*QHTP*QPTPIDMAPTS HARMPFHHTFLTQILTLVSRSP DPG/PHGGKVPTRIPPAQPWG PSTLPSSSFLGPPRPFPSPVPGP GGENRKPFTSPP*A*\GFPGPPSG P*AGGEG/PPVVG RGATPSPTP SPACGPLKCWWHLIKN
19362	49730	A	19475	168	522	LALHPT RPLIPATDDEVTVTED KINAPH*KQPVVNVEPF\APGLF AKA\LANVNIGSLICNVGAGGP CCQPAGGCTQPGGSCPLHCWL LPA*GRRKWEAKKEGFRGSFD* LTWGFGSF
19363	49731	A	19476	1	328	
19364	49732	A	19477	1	1204	MASRLLLNNGAKMPILGLGTW KGSILRVGFGSSSREPPPYRGQP LMGGPPVRILGPSGRPKRHNR GRRGKWASQTGGPRAQTGTWS RRQGQVTEA\VKVAIDVG YRHI DCAHVYQNE NEVGVAIQEKLR EQVVKREE\LFIVSKLWCTYHE ERGLV\KG\ACQEDTSSDLKLAD LPGPLTLIHWPTGFKPGKEFFPL DESGNVGPSDTHISDTWA\AME KLVDEGLVKAIGISNFNHLQVE MILNKP\GLKYKPA\VNQ\ECHP YLTQEKL IQYCQSKGIVVTAYS PLGLS* TGPWPKP\EDPS\LEDP RIQGSQPKHNK\TTA\QVLIRG SPCKRNLVVIP\KSVTPERIAEN FK\VF\DFELS\SQGYDPP*LSLPT RNWR\VWCPCWSCTSH\KDYP LPMKEVLKA
19365	49733	C	19478	300	489	

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19366	49734	A	19479	243	471	CDHLQVSRPRIPATVPVEWKRS EMDSKEEEKEKKEKKEKRRRR *RRRGKEEEEERRRRKRRRKK RGRKK*IKKRV
19367	49735	A	19480	1	365	MGLYKDLLDTRYLFYLVPGYG LTQIELEVIKDSAPVGTPTV GLKLEMGIYLSGHLDFIFAMP FKIKDILSLKKEEEK/ERRRRR RRKEEEDEEEEEEEEERRRR RKRRRKKKRRKKID*KKEEKE EEEGEEGKKKKMKKKRKKK KKKKGGGGGKGGERRRGRKK
19368	49736	A	19481	96	508	PAGSLVCPNQCSSARLFSSFFCS SAVMSASPAVGKRGWAELTGS FLPKPPLKTLGSGREDR*GQVW WLTVPVIALWEAEVGSLEGQE FETSLGNMVKPLLYWLGSNGW LWKLGRRLWQLLWLQDDWPT RGSHILVL
19369	49737	A	19482	3	1013	SRPSWGTHWNEYARRLTLAPS WPLP*GHPVSPSLRVSL/PHY ESVLEKKGPCDRDYKKFWAGL QGLTIYFYNSNRDFQHVEKLN GAFEKLTDEIPWGSSRDPGTHF SLILRNQEIKFKVETLECREMW KGFILTVVELRVPTDLTLPLGH LYMMSEVLAKKEARRALETPS CFLKVSRLAQLLLE\RYPECGN LLLRPSGDGARQRVGHHAADA QRDA/PWFRHYKVEAGRGPKY VIRCGTAVLLHLPWTTVVNYF VSHTKKALVPFLLEDYEVKL GYVEADKENGENVWVAPSAPG PGPSPLHKVPPSRCQPASSQDKL PPLPLRNPGREIT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19370	49738	A	19483	63	1496	LISAMAC\ARPLAISVY\SEKGESS GKNVTLP\AVFKAPIRPDIV\NFG SHPNLRKNNRQPV CWQGN*AG HQT\SAE\SWGYWPRAV GSKFP R\VRGGGTHRS\GQGC FLETMC R\GGRNV LHPTKTLGRRWH\RR SSTQPKKRIRPSGSAPGCPQLP ALGHGLKGHLY*GKFPETSFV* VER*KLKG*QEEPRAVFAPLR KLKRPGNDIQKGSMASSAK*RA GQKAKLRKPVARIPAAGAPCI\I YNEDNGYSFKAFRKHPWGLL MLNC*GKLEHF*KLAPLVGHV G\RFLHLGLESALREV*DDLYG T\WR*SHFPLQGVNLPFSPWHK \MI\NTDS*AESLKSPEIPREPLRA PR\KKIHSQSS*RRNPLEKL*EIM LKA*TPFAKAHAAGTPFFGQAR N\HKLRVDKAAAAAA/ANLQA NSDEKAAVAGKKPVVGKKGK KAAVGKKQKKPLVGKKA TKKPAPEKKPAEKKP\TTEKKP AA
19371	49739	A	19484	3	730	KRLPKMAEVQVLVL\DGRG\HL LG\RLA\AIVAK\QVLLGRK\V V\VRCEGIN\ISANF\YRN\RLKY LGFSPPSGMNTNPSRRPLTTSG APSRIF\WRT\VRGMLPPQNPSG GQGRLLDRLQGV*RASPPPYGQ EKSGMVVPAALKVVRLKPTR KFCLIWGR\APEGV\WKYQAV TAPPGGERGKRKAKIHYRKKK QLMRL\RKQAREETWRKKIDK YTEVLKTHGLPGLSPIKTVNSS KKKKKKRAAA
19372	49740	A	19485	1	660	PTRPRTRGRRTKSTPMKGLGA RYREYKV\VGRCLPTPQNATRG PLLACEIFAP\NHVVAKVPAF W*LCILS*KKMKKFFQ GKIVYL WGKVF*EGSPLRVERTFGDLGL RLLTPRERAPHNIVTGEY\RGF* PTAGGCSTQLLTRDNGVARHR RPEAHFHFRFMEGWEGDRGP/C KIPPGGLVKASSNDSKIKVSRW PHRV\LA AFRNKARFTTKRPNT

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19373	49741	A	19486	51	471	EAGRLPGNILLDSIMACGLVAS NLNLKPGECLRVGEVAPDAK/ S*VLPARCVHGILSDRLVGQWG WSWPRWPHAHPLPPSFVLNLG KDSNNLCLHFNPRFNAHGDAN TIVCNSKDGGAWGTEQREAVF PFQPGSVAEVC
19374	49742	A	19487	59	527	ETQSWPCGLVA\SNLNFNTLES CLRFPKPSWL\PDA\KSFRC*NLG QRPPTTWCLHFQPSASTAH\GS ARHASLCNSQGTAGHEGGPTQ REAVFPFQ\PGKCCRGVAFTFRT RANLNRSSLPDGITEFQVSPNGF NL\EA\NYMAA\DGGLSRSKCV AFD
19375	49743	A	19488	2	440	KQQCRDTGDEVVCSFVG YQL LSDGVSCEDVNECITGSHSRAF GESCINTVGSFRCQ\RISSCATG YELTEDNSCK\DTLGSFRCRPKL QCKSGFIQDALGNCIDINECLSI SAP\CPIGV\TCINTEGSYKCQKN VP\NCGPLVNHLKE
19376	49744	A	19489	2	2061	
19377	49745	A	19490	2	2120	
19378	49746	B	19491	63	255	

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19379	49747	A	19492	2	1941	PPMERAAPSRRVPLPLLLGG LALLAAGVDADVLLLEACCADG HRMATHQKDCSLPYATESKEC RMVQEQCCHSQLEELHCATGIS LANEQDRCATPHGDNASL\EAT FVKRCCHCCLLGRAAQAQGGQS CEYSLMVG YQCGQVFQACCVK SQ\ETGDL DVGGLQETDKIIEVE EEQ\EDPYLNDRCRGGGPCKQS\ CRDTGDEVVCSCFVGYQLLSD GVSCEDVNECITGSHSCRLG\ES \CINTVG\SF\RCQRNSSCGTG YE LTEDNSCKDI\DECESGIHNCLP DFICQNTLGSFRCRPKLQCKSGF ITRML*GNLLLDIQWSVLSIQLP RCPIGD*HG\NTEGFYNVPEGT CPNCGPLGYHLQRGRGTRCV\ D V\DECAPPCLSPVGKG\HR\CVE LFPGSFPLAECKDGV TIFDGISR DVLFDVQRSCQRLPRGACC\GH K/CTENTLGSYL\CSCSVGF\RLS VDGRSCEDINECSSPCKPGSVA NV\YGS\YQCY\CR\RG*PASAIV GWEFTCERTFDGVAALPHRGH TFWFLTAGIQTSWGSFPVAACP SSGLTGWAPNGPATCQ\DI\DEL C*LGIHNCFHSTEDLVSNIPGAG FRCLGLSSCPENYRRSAAT*S*G NSCMRAIGAGWEKEKGKLAGS
19380	49748	B	19493	123	237	
19381	49749	A	19494	285	456	VINKRLVCTRLLRRKWSCLQPH RMM*VQAGSRGSQPKYHRHE MGWTGHTDTPPHRL
19382	49750	A	19495	383	693	NFLPAQPCLSAPPS*S/RSLLDNS PLNCKAFHSSSHLLKLESCSE NSPGPLL\QPGGTCLGACPGCFS FSPGISAGKPLSKAASPPVCTGS GAETSTTPPSPLR
19383	49751	B	19496	28	236	

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19384	49752	A	19497	1	927	PAAPQVAGRLGLGCPLHLHVF AVVSAMLPLLRCVPRVLGSSV AGLRAAAPASPFRQLLPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGSGCGSLHTDGDKAF VDFLSDEIKEERKIQKHKTLLK\ MSGGWELELNGTEAKLVKVA GEKIPVPF\NINNSIPP\TFDGE TLARARRFEDREPELTSLPKF\ VE\VIKND*WQERPLVLD\VHYP EDEVGQEDAESEDFSI\REVSFQ S\TGESEWKDTNYTLNPDSFWT GPLYD\HLMGFP*PNRGVDNTF A\DELVELSTAPRSPGPVLPFP
19385	49753	A	19498	3	342	LDTNLPANRVPAGLEKRLCAA AASILGKPADRVNVTVRPGLA MALSGSTEPCAQLSISSIGVVG ARDNRRH\GAPFFGFSPRELALG QDRILIRFFPLESWQNGKIRTGM TFL
19386	49754	A	19499	3	520	SSARAVSVPLPAMPFLELDTNL PANRSARGGWRKRLCAAAASI LGKPA\DRVNVDRYAGGFAIGA *AGST\EPCA\QLS\SISSIRQWGT AED\NRSHSAHFF*VSSPRELSP GARDRIILFRFFPLESWADWAR *GTVIDFFMIWGTEGFQGHVNL LAASFQKRSSWAEVKGLG
19387	49755	A	19500	7	355	
19388	49756	B	19501	172	479	

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19389	49757	A	19502	1	1656	LEDPDSSSRPRRAGSGHSASFPF PPLEQLWRQVKTLNPKAEVAR AQAALAVNISAARGLQDVLRT NLGPKGTMKMLVSGAGDIKLT K\DG NVL\LHRNCKFQHPTASLAI AKVSNKPQE*YNLVDGTD FLIV LINWESLLKQA\DLY\ISEGLHPR IIT\EGF\EGAKEKALQFLEEVKV SRE\MDRETL\IDVARTSLRTKV HAELADVLT EAVVDSILA IKKQ DEP\IDLFMI\SVIMEMKHKSETD TSLIRGLVLDHGARHPDMKKR WRDAYILT CNVSLEYEKTEVN SGFF\YKSAEEREKLVKAERKFI EDRVK\KIIELKRKVC GDS DKGF VVINQKGIDPFSLDALSKEGIVA LRRAKRRNMERLTLACGWG/M PLNSFDDLSPDC\LGHAGLVYE YTLGE\EKFTFIEKCN\NPRSVTL LIKGP NKAHTSLRIQRWQ*GDG L*GAV\KNAIDDGCVVPG\AGA VGSGQWAGSPGFKHKPSC*RA RAQLGSPKHLLDAFAHYFPKVL CFRNSGFLT FQGNIKLKFKAE\H SESG\QLVG VDP*TPGEPNWWP ARSKAVWG
19390	49758	A	19503	2	424	EGPVMAPPNPGPATLGGPGPDP DLGRLPLHEVFLHIRV PARPRG APLHRRGLRGRHAVRAVRQRR REPEDGAAGAVDRAGGAGVLG RGDRESEGPLTD*PREPADRAP LLQPERGRFSHPLPTLT CAPSPII FPVAERWG
19391	49759	A	19504	3	174	
19392	49760	A	19505	2	153	LPLHEVFLHIRV PARPRGAPLH RRGLRGRHAVH*PSEPGD PARL LQPERG
19393	49761	A	19506	3	354	EDGRHGAPNPPPATLGGPGPDP DLGGLPLHEVFLHIRV PARPRG APLHRRGLRGRHAVRAVRQRR REPKN GAAGAVDRAGGAGVL GPGDTEYEGPLTD*PSEPGDPA RLLQPERGR

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19394	49762	A	19507	3	1246	GSTHASARMAVMAPRTLPPAT LGGPGDPDLGGLPLHEGF\LHI RVPARPRGAPLHRRGLRGRHA VRAV\RQRRREPEDGAAGARG* EARKGPE*LGRG\NTESEGPTH LDPSEPGDPARLLQPE*GRFFTP FQIMYGC\DVGSDGAFSSAGYP QERLTNGKDYIALNE\DLRSWT AADMAAQITKRKWETPPMRRR SLRAYLDGTCVEW\LRRYLENG KETLQR\TDPP\KTHMTHHPIS*P *RPL*RCW\ALA\AFYPCGDHT*P WQRDGEDQTQGHGSLLETRPA GAG\TFQKWASMVVPSGQEQR\ YT\CHVQQ*RVLPKPLTLKM/W EPSSQAHPSPIRGASFAGPWFS LGS*ITG\AVGRCW*C*RKEQLR WRRGER*KKEGAYSQGCKASD QCPGASDVSLHSFVKVLRQLAL
19395	49763	A	19508	1	392	
19396	49764	A	19509	1	220	
19397	49765	A	19510	3	500	
19398	49766	B	19511	28	134	
19399	49767	A	19512	1	1662	MAASVVCRAATAGAQVLLRA RRSPALLRTPALRSTATFAQAL QFVPETQVSL\DNGLRVASEQ SSQPTCTVGWIDVGSRFET\EK NNG\AGYFLE\HLAFKGTKNRP GSALEERRWRAWGAHLNAYST REHTAYYIKALAKELPKA\VEL LGDIVQNCSELDFTD*GRNVDV ILRE\MQEN\DAS\MRDVVCNYL HATAFQGTPLAQALEGPSENV RKLSRADLTEYLSTH*QGPSKW CWAAAGREWEHQQLFRTFAQE GTSVGIP\WTYAEDAVPTLTPCR FTGSE\HRDDALPFAHVAIAV EGPGWASPDNVALQVANANG H\YDCT\YGGGVHLSSPLASGA VANKLCQSFQTFSCYAETGLL GAHFVCDRMKIDDMMFVLQG. QWMRLCTSATESD\VDRGKNIL RNALVSHLDGTTVCEDIGRSL LTYGRRIPLAEWESRIA EVDAS VVREICKYIYDQCPAVAGYGR SLGLPFHLCSRTAAQLTEQPVK APSSSPQSPGCQGVLAQKTCPS SLTACQGAFINTLHPSGPIEQLP DYNRIRSGMFWLRF

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19400	49768	A	19513	2	1693	AQSTLARRNRADCSWKMAASV VCRAATAGAQVLLRARR\SPAL LRTPALRSTATFAQALQF\VPET QVS\LLDNG\LRVA\SEQSSQPTC TVG\WVIDVGSRFETEK/DSGA GYFLEHLAFKGTKNPALAVPW EKEVESMG AHL\NA\YSTREHT AYY\KALSKDLPKAVGALGDI VQNCSEDSQIEKERDVILREM QENDASMRDVVFNYLHATAFQ G\TPLAQAVEGPSENVKRLSTA DFTRYL\STHYKAPESVLPQTEG VRTEQLLDL\ARNHRVHIP*TY AEGAL\PTITPCRFTGSEIRHP*D\ ALPFAH\VA\AVEGPG\WPAPD N\VALQVGNA\IIGHYDCTFGG\ GVHLS\SPLG\SGACGPTKLCQS FQTLS\ICYAEDGLCWVHTLFC DRMK\IDDMMFVLA/QGHWMR L\CTSA\TRSEV\ARGQKNIPQK MPLGISS*DGNYSLCVEDITPAA LLTLWARRNPPGLKWES\RIAG GGFQVVVR*DLAPRYIYGPSCP AVA\GYWPH*SMLPDYNRIP*P ACFWVAFFRAGKPMVKQKGR GGGLWSPPPPQTQHFRLLLTCC
19401	49769	A	19514	46	422	
19402	49770	A	19515	568	1567	GPWAANGVVLAFPCLGSPAP HLAPQKAVPPKWGISSLCSFHF HIYQVGGVAF CGRIRFLSSTDF KRRAGGSGSLMSQEEKHELSE KIRSQIMDDHARPYLYTMSNCP CWAGALGPQESKCSRGRLLHR AFPSLV\TLLLAGQATTGLLSCY QQQGAGWDKLD SHRPRNLAA WEEPCGMEAFPKPSQSLVEAKI AQLATPGLLDCKAACPWGAPC PRGPMQNATKVIGNM\TEDHV DAPGSRNAEPP*KVYPP\LKGSF P/EKNLRHLKNTMETIEWKAFE NWMHHW\LLF\ELSKQSLWEQ/ QSPLDAPPK/ENSLELEDPSGL GVTKQDLGPVPM
19403	49771	B	19516	1	1428	

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19404	49772	A	19517	1	2293	MARSEAAAAGPGPGPPGLAAR ERRGGRGCVRG CERASVRVWS VALRRARRAPARPYVARCRRV RRPARVAIGCGGVSSPAGVSGC ARVSPERPPLRLCVWALSRAHG GAVCRAGPGPDSLKRGLTSHPP AFPLHHGSRTLLLGLSPPPAAL PFLLLLWAGHLVAS/ACPGRCIC QNV/SPTLTMLCAKTGLLFVPP/ SIDRRVVELRLTDNFRRHFAN MTSLV/QLTSLRNTIGQVAAGA F/VDLRALRALHLDNSRLAGC/ GGDQLRGLGNLRHLI/VGNNQI RRVESAAFD/DLLSTVEDLDLS YNNLEA/LPWEAVGQMVNLNT LT/LDHNLDHIAEGTFVQLQSW A\RAQAAHPLTVSFGGNPLHCN CE/LLWLRRLTREDDLET CASP N/NLTDYFWSIPEEESCTRCQR FCG*ASLVAAELTSNSVLIRW/S TQRPVPGIRMYQVQYN/SSVDD SLVYRKYSLSYMNPTRMIPST SQTFVLNDLAAGRAYDLCVLA VYDDGATALPATRVVGC VQFT TAGDPAPCRPLRAHFLGGTMII AIGGVIVASVLVFIVLLMIRYKV YGDGDSRRVKGSRLPRVSHV CSQTNGAGTGAA/AGPGPAGPG PLRGAARGGVP/WLPPSPSRPR PWRPR/LASAEPEVVLGRSLGG SATSLCLLPSEETSGEESRAAVG PRRSRSGALEPPTSAPPTLALVP
19405	49773	B	19518	97	255	

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19406	49774	A	19519	1321	1728	EHAHDRDLHHAHYVQATLVR ASLREAVVGSPTDAWLQRTA RSSASLLLARNRPATSVWLPRA GFIAGTGGRRERRRGSEGWEGG GAGGTGAGLSAHSQTSACEGS/ CGGSAGRGRCLLSAATPPLQPP RPAPPTAGLVQPRQVPTAPPRA SAGNEHHQGWSGRL*KSLAAA RVGEAPGKLP RPDRFRKQSNGA LARASLRVSAQPGTCSSSAAAF PPLGPAPLAAPARSCDESGPRQP DGRGGPVPGQQQARGA/ESEPCA AATRRPWVNNRRR/TSRREARTS VACT*CAWCRSRSCACSHSPWS SASSSSAAICSSSPRA*STSS*RT GGRLRRWRRWSWGPTDPPYAP AATAPTPAHFASP/ACAPHYQR LGEANLSESIISLD/CRPFGKKRP VSPSPSESPHA WQSEESAQTLN SAESGKKRAIRAQNFG/RLLLT WNAGRPTVRRPFSTRRWAKLW GQVERAGRGETQRH*SPCDRKS DLLKATQQTHGVSQIRVRVRSP LFSLLPPCPRKGGANKIPLNCKR ARFKKGFVFCLEIQMFE
19407	49775	A	19520	192	447	
19408	49776	A	19521	1	591	
19409	49777	A	19522	281	421	
19410	49778	A	19523	174	512	
19411	49779	B	19524	67	1166	
19412	49780	A	19525	1	1620	MGAKDGRLLSESSQGLSSCGAS LVPFCVSKSRLLMKTPTVRLDKE TVSTVDSGAPTDLAQLPTVLKQ PCCSVMASGQFVNKLQEEVICP ICLDILQKPVTIDCGHNFCLKCI TQIGETSCGFFKCPLCKTSVRK NAIRFNSLLRNLVEKIQALQASE VQSKRKEATCPRHQEMFHYFC EDDGKFLCFVCRESKDHKSHN VSLIEEAAQNYQGQIQEQIVL QQKEKETVQVKAQGVHRVDV FTDQVEHEKQRILTEFELLHQV LEEKNFLLSRIYWLGHEGTEA GKHYVASTE/PTVERSQEAH*FP VCLLASYSDEISGQGASSQDTKT FDVALSEELHAALTSAPDLILS QDEIVTLNLASQGGSQKRGNPR RFYRRGFLEVEPLTGVELHSS GSQCQALIESGSREDLPVCPNK
19413	49781	A	19526	203	359	

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19414	49782	A	19527	135	466	DPAGSSAASMSSAAGLCALTPP /GLLSLGLLLLPLVVAF\ASAEA\ EEDGDLQCLCVKTTLPGSVPGH IHQLGG*FKGRDPHCPTCPT**A TVEGMGRKILLGTWQAPLLQG
19415	49783	A	19528	46	468	TGPTHASAAILVPRSLHKMPGE ATETVPATEQELPQPQAETGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRAK AVRALKNNS
19416	49784	A	19529	337	509	ISQQLLVLAGINLRSWLPQKL CKYLKQDVLTA LDLSVEVPEFC PFVDHLVVALEEEGPAL*GHPA SDTYIVFGEAKIEDLSQQAQLA AAEKFKVQGEAVSNIQENTQTP TVQEESEEEVDETGVVEVKDIE LVMSQANVSRAKAVRALKNNS NDIVNAIMELTM
19417	49785	A	19530	91	1019	GELLALLGHRVPTRPWASGQK GVCGWCPGKSTLQGLRCGPTIR ACRDGSSCSVEGGRGVRLVLG TASQDPEKEMPGEATEPVPAT EQGVAASPRATGSGTESD\SD ESVPE\LEEQDSHPGQPHNKAQ AGRQQSEIDEDPVS\KAKQSRN* KEGPGRAMSQTGVFGQVTGVT KEFT\RKSKNILLCHPPKPDVY QGAPASRYFTIVFGGSPRSEDLS PSKHNLASCLRNSKFQGEAVSN IQENTQ\TPTVQEESEEEVDE TGVEVKDIE\LVMSQANVSRA KAVPSPEERTSNDIVNAIMVSV
19418	49786	A	19531	1	261	MWGHFHSHPGTGQARAYTDS GSPILIMHVNRRHSEIPVLER NLLHFRMDAST*NLGMSSLME AILKNQFRHVSLAVSFAFSGEK
19419	49787	A	19532	277	349	
19420	49788	A	19533	792	1014	

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19421	49789	A	19534	849	1752	GESRGWERRKCVRLSSYATHL SVCDCHIGNVREGADPAGGAG *L*GARQQQTHTHKPAKATQR GEDREEKKRETKREERLGQQE NERDERGRREKEPRNRGTKRRE AEKGRRR/ESEKREEKGEEER QERQQRAREKRRRGARRRG REKKKTQRPRTQAQRPPLKKIK DYTHHTTQTPTQQHHTHTTKH KQPHTNNTTVFLFFFLAKEHR RAARKQHEPERGRGGGSKAGA KIKHTSIAAAADRRHDPRTQRD TRRKEGRRAQSGKHGRTAHKT EAGGGIPVHSTSRVQVILLQPP
19422	49790	A	19535	139	470	
19423	49791	A	19536	2	83	
19424	49792	A	19537	32	434	NRRKGA\GPVFQRAT*KH/RV*R AGLRAVDFAERHGYIKGIVKDI IHNPRR/GAPLAKVVFRDPYRFK KRTELFIAAEGIHTGQFVYCGK KAQLNIGNV/LP/VGTMPEGTIV CCLEEPRLCRRKRTSAEGLNKV CVYAT
19425	49793	A	19538	10	443	
19426	49794	A	19539	63	376	
19427	49795	A	19540	170	368	
19428	49796	A	19541	175	427	
19429	49797	A	19542	1727	2262	
19430	49798	A	19543	131	596	
19431	49799	A	19544	695	1337	GFGTOGERRRQCRLRVTPPLG ASSATQKTPALPETPVKAEQSC TLLSPRTPGHLQPRLLDPSPW AVLIRG\QRKGAGSVVRRATLR HGK/GAVRLLRRWISPERHGY IKG\IVKDIHRPRSRRAPPLRQR WFFRDS\YRF*ER\TELFIAARG AFHTGPSFVYCRQERPSFNIGQ WCSPVGHHCLEGYNSCCLPWK EETLETGKAGPGAFKGN
19432	49800	A	19545	1	813	
19433	49801	A	19546	227	381	
19434	49802	A	19547	135	740	PQPLPPPTSMARHVFLTGP PGV GKTTLIHKASEVLKSSGV PVDG FYTEEVRRQGRRIGFDVVTVVR HPGGLLSRVGLEPPP/RENVNAE LGSYVVDLTSFWSSWALTRLE GM*ADCQQWAQQQRVCVIDEE LGKMEALSVK\FSFKAVRQTLS YPRDI*SL/VHKSQVPKGKPLAL VEEIRNRKDVKFNVVTQ\ENRN HLLARYS

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19435	49803	C	19548	251	574	
19436	49804	A	19549	2	450	
19437	49805	B	19550	721	3048	
19438	49806	A	19551	3	396	
19439	49807	A	19552	2	450	
19440	49808	A	19553	2	1152	GPPLHCTRAAGIRHEAPLGLAG LCRAADAGLCSAGWGFVKVV KNKAY\FKR\YQVKF*KTPERV KRDYYARKR\LVIQDKNKYNT KY\RMIV\RVTNRDINLSRLLYA PV*RGDMDSLAQR*LHTELAKI LVVEGLALTNLLPAALFVPGPA CLAPQAFLO*VLAMDKDLE PSWS*LGDEYN\ESIDGQP\GA FTCYL\ADLARTTTGNKVFG\ APEGAVDGGLSNPHSSKRFLG/ YVYPLHSTQTDSPGFMDSEKQR NFNARSTSGKHIMGQ\NCLQDY IALL*WERKMKDAYKK\QFSQY IK\NSVT\PDMM\EEMYK\KAHA AIRE\NPVLWKRPRKERSLKRR GWNRSQNVPLLRKKDRVA\QR KASFLQSSRSGLLES LTPAIFP
19441	49809	A	19554	3	991	LTSRGVGSACVMLLLVRAGAR AWLRPTGSQGLSISLAEEAARA TENPEQVASEGLPEPVLRKVEL PVPTHR\RPVHAWIESLRGFEHE RVCLVDLHPDVFANAPRLDILH QDAMLQKNF*RISYAKTKTRAE VR\GGGGKPLAAERH\WAGPA WQHPLSALARRRCCPWPPGP\T SYYYMLPMKVRLGLKVALTV KLAQDDLHIMDSL*L\PTGDPQ LP*PELAH\YRRWGDSVLLVDL THEEMPQSIR\EATSRLKTFNLI\ PAVGLNVHSMKHKQTLVLTLP TV\AFL\EDKLLWQDSRLQTPLY PFSLAPYSDFRPLPHATQGP\A ATPYHC
19442	49810	A	19555	31	305	
19443	49811	A	19556	213	541	DGGPAAHTPGAARGELSPVGD SGGYFRPSHLRCWILNLCISVPL SSAKDLLHPSSEEEARRNPMKN RLVQSPNSYFMDVKCPGEETV CCIGESTGPQQLENVVVLAVSY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19444	49812	A	19557	164	591	DINSRDRSGPRATRIDGSGEGD KMAAQLRRHQGRRGASSPRFA KD\LLHPSPEE\EK RKHKKRL\ VQSPNS\YFMGV\KCPG\CFKFT TVF*AMAQTVVLCVG/CAAPLF LCQPTGEKARLTEGCSFRRKHA LKATLSQDEWETILQ
19445	49813	A	19558	362	916	GGRCTMARTKADWPANRTGG KAPKEANWLTKSPLRKSAAALY LEGSKPHRYR\PGTVAPP*NLD GYQKSTVELLIRKLFPQ/RRLVRE IAQGLLKQDSRFQ\SAAGCFAG RQVRAYLVWPFLKDTNLCA\H AK\RVTIYAKKTFQLSTPAYRG EPCFKDPLMDGETFHSQKKKK KISLLPVIGSSER
19446	49814	A	19559	849	1261	DGHIAGGPCS*GWPRDPAPKSQ PTMSSGSEPEKLPPAPRPQHYCS PAEVSGPRFAVGKALNQQAF ERRLHTSLCPVPAALTVPSPESL PQPQIFPLAPATHLYSKAWA GATVSRPGAILGAGLYWGLVR ETAS
19447	49815	A	19560	3	1852	
19448	49816	A	19561	362	1298	QGGRNVRHPSPLLAWGSDLIV KPHWLHWLLDLNHARLSALFA AAGARLPSHIPAPSAGSRLLLL LLGGCRACLLFFPEMANRGP SYGLSREVQE\KIEQKYDADLENK LVD\WILQCAEDIEHPPGRAH FQKWLM\DGRVLC\KL\INRLYP PGTRSPYPRFSESKDGFLGRWE QISQFLKA\AETYGV\RTTDIFS RRWFLWEGKDMAACAEGP*L ALGSVAVTKDDGCGYRGEPSWF HRKAQQNRRGFSEEQLRQQQN VIGLQMGSNKGASPGGP*TYR ECPRQIHVRTRHPAPWLERTNV STPWSFTKKK

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19449	49817	A	19562	3	2518	AAGEWPQRPRAAVAAAGAAA RQRLPGSRQVAAGAPQPAGGG DPSQR\PPGAELIKVQVYVS GE LVPLARASVDVFGNRTLLAAG TTDSEGVATLPLSYRLGTWVLV TAARPGFLTNSVPWRVDKLPL YASVSLYLLPERPATLILYEDLV HILLGSPGARSQPLVQFQRRAA RLPVSSYSQLWASLTPASTQQ EMRAFPCLPGH*G\SSSGNGSW LELMPLTAVSVHLLTGNGTEVP LSGPIHLSLPVPSETRALTVGT SI PAWRFDPKSGLWVRNGTG VIR KEGRQLYWTFVSPQLGYWVA AMASPTAGLVTTSGIQDIGTYH TIFLLTILAALALLVLILLCLLIY YCRRRCLKPRQQHRKLQLSGPS DGNKRDQATMSQLHLICGGP LEPAPSGDPEAPPGPLHSAFSS SRDLASSRDDFFRTKPRSASRP\ AAEPSGARGGESAGLKGARSA EGPGGLEPGLEEHRRGPSGAAA FLHEPPSPPPFDHYLGHKGAA EGKTPDFLLSQSVDQLARPPSL GQAGQLIFCGSIDHLKDNVYRN VMPTLVIPAHYVRLGGEAGAA GVGDEPAPPEGTAPGPARAFPQ PDPQRPQMPGHSGPGGEGGGG GGEGWGAGRAAPVSGSVTIPV LFNESTMAQLNGELQALTEKK LLELGVKPHPRAWFVSLDGRS NSQVRHSYIDLQAGGGARSTD
19450	49818	A	19563	206	1126	LESGSHIYAFSHESLLHVASAS V*TSFSDFATSVCHSPLHCQLH HALIPHGKGECS\VSIGIVATGF GATGFLGRCVVNHLGRVGSQIP QAIAQVSKEAEVGKFIHVAHLN VNIKSSSRYLRKKAVGEKAVR DTFPEAIIVKLLDIFGREDRFLN YFANMCWFGAIPVSLGWKAV KQPVYVVDVSKGIVNAVKDPD ANGKTFAFVGNRYLLFDLVK YIFAVAHSGWVARDFEISPF E SWTTRDKVERIHITDMTSLHLP SLEDLGIQATPLELKAIEVLR LH HTYCWLSAEIEDVKLAKTVNI

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19451	49819	A	19564	196	553	KLSEFFLTHSINTAIRNGNLFV NRVTEVTRSGGNELGSCLLAI KFTLLSFLGTGTRLLPALRPRR LQQRGSHGLAGRLFTLWILHA GCHARGELLEPDTC*LSLCRAR KPRLSTLK
19452	49820	A	19565	1	505	ATEDPGVAMGRRPARCYRYCK NKPYPKSRFCRGVPDAKIRIFDL GRKKAKVDEFPLCGHMSDEY EQLSSEALEAARICANKYMKVS CGKDGFIHVRVRLHPFHVIRINK MLSCAGAD/RIHISKKWGFTKF NADEFEDMVAEKRLIPDGCGV KYIPSRGPLDKWRALHS
19453	49821	A	19567	6	904	AQLSSLAVPLLVLTPFRSVLVFR SDSLFFVAATEDPGVAMGRRP A\RCYRYCKTKPYPKSRF\CRG CPLMPRIRIFD\LGRKKGKKWN EFPLLCF/HMVSDEYEQLSSESP GRLPRICPNKYMVKSCGKDGFI/ HISRVRVRLHP\FHVIRIHKMLSCA GADKAPKQACRGAFWKS PKGN LLARGSQLAQVIMSIR\TK\LQN KEHVI*GPAARPSFKFPGRQKI H\SKKKWGF\TKFQC*WNLKDM VAEKRVHPHMACGGQSTSPSR GPL\DK\WRALPLHEGLPNVAA HPLNTPPIKFLLPWSKKKKKK
19454	49822	C	19568	346	471	
19455	49823	A	19569	1495	2780	EGLHLFCDLLDGLPGVQVAGG FDSFSSILASFTYWHDFPNSTML LSTFRDINLGMNIKKSAVCFSR LGSETWEMPANLRPSEGGART RTELSRPQTPSRAHLAWRGRGG LGAVRPRRLSRRRSLS*KPARSL* AEAPAGAPVRRCRPAAPP/PPRP SRCGPSTPPPPSPGA\PRRRRPP CSEHNKLSPPPPSSLCLRPAPSPP RPAPRRSPSRRRRRRRHPRPAD RREPLASATRVRLPPPPPPR*PP SSSCPRRGRRFLAPWLARPAG APRRAPCSRAARSRRAGASGAR VGDPAGAGRGWRRRAAGRP* APERRPPPLPAVCEVSGGPLRA SFADSVPGVRRRRPPGLGTPLSS SGV*PRNERGVETTTWGGGSE GAPGSGEGGNLFPAPQVIVARS GEGTVVPRFPVCQLRDSAVLLC LFD
19456	49824	A	19570	178	256	

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19457	49825	A	19571	622	1726	QGSGRMTMMRMLVPASVGLLET GPPGDPSSLSHPLSGDVTVLPE Q\STVQKLASDHKDIHSSVSRV GKAIDRNFDSEICGVVSDAVW DAREQQQILQMAIV\EHLYQQ GMLSVAEELCQESTLNVLDLF KQPFLELNRILEALHEQDLGPA LEWAVSHRQRLLLELNSSLEFKL HRLHFIRLLAGGPAKQLEALSY A\RHFQPFARLHQREIQVMMGS LV\YLRGLGLEKSPYCHLLDSSH WAEICETFTRDACSLGLSVESP LSVSFASGCVALPVLNKAIV EQRQCTGVWNHKDELPIEIEL\A *SAWYHSVFACPILRQQTSDSN PPIKLICGHVISRDALNKLINGG KLKCRYCPMEQNPADGKTH
19458	49826	B	19573	271	392	
19459	49827	B	19574	58	296	
19460	49828	A	19575	215	861	QLPAESVTRTRGPAKAQARAGG PPGPWHCSYKWRAWPSSLSGT GWPDMEGETTAAAPASRENSA DCS\AGELRGPG\KELWSPIQ\Q VTATSS*MGRDFVLAT*EKVSH VDS*/EQPRSLQR\DRP\AGPAQ AKQGTTPRAQASRESL\SRPTAA V\QLPSGPQHPV\TSGS*KGLAG KTSMGRKGLPWARGWAPWSL EAQNP\RPTRLCDLFTIGEDFDD DV
19461	49829	A	19576	65	782	SSSSSAIQRKPRWVLYKYIQEL WRKKQSDVMRFLLRVRCWQ\Y RQL\SALHRAPRPT\PK\ARRL GYKAKQGYVIYRIRVRRGG\RK RPSFLKGAT\YGQSPVHSWVFN QLKSFASE/VLSVPFARGRRSLG RH\CGGLLEEFLNFFNWVWVER FPHYQIFLKVIPHLIPF*KLFRR N\P\DTQLIHQNQVHKHR\EMRG \LTSARPEKSRGLGKGHKFHHTI GG/SLRRATWRRRNTLQ\LHRY R
19462	49830	A	19577	1	179	QEDYLRELLTTMGRD\FTDEEV DELYREAPIDQKGG/MFNYIEFT RILKHGAKDKDGLKEL

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19463	49831	A	19578	144	722	KKGLNHHHVEQNNTRPRPRSG PQRATSN\VFAMFD\QSQIQEFK EAFNMIDPDQDGFHRPGKICND MLASLG\KNPT*WSILDAMMNE \APGPPSNFTPWFPHHGFGEV* MATRS*KMVIRKCPLTCFE*KK PLGTI\GEDYL\RELLTTHGGIGF TDEEVDELYREAPI**KRGISITS EFTRILK\HGAKDKDD
19464	49832	A	19579	3	429	VACLREHKQRCERATRSLREL LQVRARVQLQGSELRLQQA RPAAQAPEKEAPEFSGLQNQM QALDKRLVEVREALTRLRRRQ VQQAERRGAEQE\DRPQTGQA DRLAAAGGAGPGGGLRRPAEE PRGQQPEGPGGGQN
19465	49833	A	19580	1	2454	RFPAGVAPRRAMANVSKKVS SGRDRDDEEAAPLLRRTARPGG GTPLLNGAGPGAARQSPRSALF RVGH\MSSVKLDDELLEP\DM PPHPFPKEIPHNEKLLSLKYESL DYDNSENQFLEEERRINHTAF RTVEIKRWVICALIGILTGLVAC FIDIVVENLAGLKRYRVIKGNIDK FTEKGGLSFSLLLWATLNAAFV LVGSVIVAFIEPVAAGSGIPQIK CFLNGVKIPHVVRLKTLVIKVS GVILSVVGGLAVGKEGPMIHSG SVIAAGISQGRSSSLKRDFKIFE YLRRDTEKRDFVSAGAAAGVS AAFgapVGGVLFSL EEGASFW NQFLTWRIFASMISTFTLNFVL SIYHGNMWDLSSPGLINFRFD SEKMAYTIHEIPVFIAMGVVGG VLGAVFNALNYWLTMFRIRYI HRPCLQVIEAVLVAAVTATVAF VLIYSSRDCQPLQGGSMSYPLQ LFCADGEYNSMAAAFFNTPEKS VVSLFHDPPGSYNPLTLGLFTL VYFFLACWTYGLTVSAGVFIPS LLIGAAWGRLFGISLSYLTGAAI WADPGKYALMGAAAQLGGIV RMTLSLTVIMMEATSNVTYGF IMLVLMTAKIVGDVFIEGLYDM HIQLQSVPLHWEAPVTSHSLT AREVMSTPVTCLRRREKVGIV DVLSDTASNHNGFPVVEHADD TQPARLQGLILRSQILVLLKHK
19466	49834	B	19581	508	4413	

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19467	49835	A	19582	8	331	EVTACWQSSQPSLTLSASSAWA STLAALEEPFSPPLHSESPFLGW PRPELGPSAAPCAPVPPEPPQRV PPPAP*RPVPSTTQGLRSVGAW CRTGRQLHLHPGVGSTG
19468	49836	A	19583	831	1121	
19469	49837	C	19584	1	1524	
19470	49838	A	19585	270	578	RFSKSPDPSGAQLAAPSGSRTG AAGGAACQSRAVRPHSSALGW SMGLGAMEQGAFLVGEAWAT QQPTVGGRLRHGGLQVSPAPR GGG*GPAKSHSSCWPRC
19471	49839	A	19586	2	298	
19472	49840	B	19587	113	515	
19473	49841	A	19588	1	569	MLPDRLRSPVAHRCRASGNY HSGRHSPAPAWRVTLTGWLDQ RSSRIHRSIAFKDSYSKGKEERT HIKGMCELLPSG/EARGLAGFR SEAADLRGECYSS*RQCGPKEL RSPAGFTQWIPHWGYRWSCLS VPRPAPALLSPWVVDGTGRCG AGGGAHRGGSGRSGAHGGGG RLRHGGLQVSPAPREGS
19474	49842	C	19589	1	1200	
19475	49843	A	19590	511	846	ARHRVLIGVFTIPELDIKVLHVP TRLRSPASFTQWIPHWGCRWSC LPVPRRVPALLSPWVVDGTGG CGAGGGAHRGGWGCTGAHGG GGRLRHGGLQVASPAPREGS*G PARN
19476	49844	A	19591	9	481	QQPLREKPAAGDHPAKNANRR WSPTRYPPYVES*NWMPSLHLI QKSIQDGLKT*TLCLKP*KL*KK T*ALPFR*ARTSCLKHQKQ WQKTKLTNGI*LN*RASA/PA KETKI/SSEQATYKMGFNHNL LF*QRANIQLQ*TQRDLQKN KQPHQK
19477	49845	A	19592	1	3339	MSVRKDVEKLEPSDIVCGNVQ CYSCMETNLTVSQVKHEVT GPREGATKPNRMKGKEGRSGS LLGEGDFFKDESVMSQGSSKD GEKRRGKAQRWKWPMQGICR QLGVAKSMEGYQSRRDQGG GVSDKWPQVCAKKPEFYPTAQ VWANFSVTSCQSVTITQLCHGL RRLEISPARSNAMHLNPDPPGQ KQNLSPKVNDIITDISSSGSGA GKFQVISKSDISEVLLQQMDAG HSSKDDPNEYGGWKSPPRC
19478	49846	B	19593	1	631	

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19479	49847	A	19594	71	208	PCPKHCSKFPMCPPELVGWSH* LQE*SHGPSRFRLC*KQPQDLQ
19480	49848	A	19595	138	650	AWAQLPSALGSTRVSPPPSARS QPPWRRRHKVCWRLNRCKE/L DEDAVASADFSSMLSEEEKEEL KAELVQLEDEITTLRQVLSAER KAS/ELR*NKNSA*T*/CNELKPE LQQKLA*HAD*HCLQEDT*YAE SRRAKGNCSFQQRWNGHQQEV RRHELLHSPFHKYACYETKVG
19481	49849	A	19596	1	1222	MRADGTAGKDPFATDKQLPEL LIQHCWDGLLAVCGGSTVGVR LPFILHGSWVRPVAASFPLPDN LHDSAEPAILLEPTQMRRNQK TNAGTMTKQISSTLPKNHHTSS PAMDPNKEEIHDLLEKEFSRLVI ELIREGPEKGKAQCEEIQKKDT KVKGEIFKEVDSLKKKQLNIQE NLETLLLEVLNALESLSNRJQVE ERNSEREDKVFELTQSNKDKA QRIRKYEPSLQEVWDYVKLPKL RIISFPNEEENSKSLENIFRGRIK EHFHSIARDLDIQIEEQTPGK LIVKRS�PRHIVIMRAPTPMDHP RAEECGRARDWQAAPPAAPV RDPLGEASWAPDSEGRK\WNTS KHQRNKLRTLHL*EL*HSSRGS VASFLKSVRPRTHQFQTQSGYP KLRWRKES
19482	49850	A	19597	381	598	
19483	49851	A	19598	1	1906	
19484	49852	A	19599	493	589	
19485	49853	A	19600	60	261	
19486	49854	A	19601	1423	1831	PRRSANVNLPPPQLATLSPGWP EERKSVGSPTSPPPRPLRRLSA APG\SGGAWPEPGAWSLD*TAS PAGAPVQRPAGNG/PSALDASH ARALYLQRIPRTWTPASQPPA PLGPFLPLIPPAASHRQPSSSFFR RHR

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19487	49855	A	19602	1	1535	MEEKTNVQLPPGQTEQHVEIHI MNFCSKNHHRITPEKPKELTDP FKEAACCKLYEIDKKLYRMA EWIKIHKPSICCLQETHLTHKDS HKLKVSITFKDLAVRFSEEEWR LLEEGQREFYRDVMRENYETL VSVEPGRAVGGGSHADEGQEP AGCG/VSPGPGAAGEGDPRVLV WRSQGRYGQPRER\GRGASLD GERASPEAA/DGKRALPSRPA QLPSRRPYQPAPPG\PTPTDSSCS SGPTGDGVQGSPLPIRISPGNSP L/PRPHQLSEGNPCAWAPAPRDI PKLLATSP*PGHVQANQSRPGA WEPALGRSDQRACASGSAELC ERWPQQAP/APPEEPPASPHPA APTG\PGFWESCGEPGAA\PGKG SAPKPSPLHCLESALRGILP\EGP CASPAWEAPAPAPAPAPARASA A/AEGEDPRPEPELWKPLPQER DRLPSCKPPVPLSPCPGGTPAGS SGGSPGE\APGEQSPGTAAASV Q/VSPAHWPCFS/SPVRYSSGSLP GFSAGEKAQG
19488	49856	C	19603	4	150	
19489	49857	A	19604	148	448	RTRDWSLFLLMFGCVRSFFLLV GLWSCWLRSEAADLRGECYSS *GGASGVVRSSWWVRGLTFR SETGFTQWIPHWGCRWSCLPVP RCAPALLSPWVVNG
19490	49858	A	19605	136	439	LVHFT*LVRLQTLARHSTDW CIYKSLARQKSSPSPHSTQEVQL ASPLTGRQEDCSEPRSAPLHSSL GPTERDSICVAASSVRWTRPGA RFS
19491	49859	A	19606	2	399	SKLQKLKRSLSFKTKSLRSKSA DNFFQRTNSEDMLQAHMVAE ISPSSSPLPAPGSLTSTPARLVCI QVARLMPFRNTSSRSPLFC/RCL QPHDSGFLFLRPAPRAHREER NNSRRVALRAVTLTTERLQLHS

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19492	49860	A	19607	1	1262	MPLSYAYKNAETLAGRHTSSW MSRGAYQRRNTRAAGRPEECT DRNWHAGRTRRIWLGQLEERC SDVFGVSFFWWVRGLAGSGAK LQTFTVSVTAHRGSKDQKSEQ KQDLLQKAKEQTIHNVKGDPS ELPLLAPAACFYSLICPRPPHIL LIGPFYRELIGPFYRELIGRQLRP GEKSSTAA/VWPRC*AA/RLPGA G/WTAPSAGPAEPTPTWNSRWP ASATRRPGSRRRLSLHTSPQAE GAGSGLSQPRKGLPQCSGRLKR SSSAARVG\ARQRRRRERASEG/ WPACCHLSVLPCGFGFLEAHSS SPEQTDHEQNCPADIKVMRLA GQPTNARGAANRAQPLHSTSV SHLKAVIFKIQTRQQKNSHFPPL FLEMTTSLATGRLRPSWVDYA RPALSVSVSRFSLTSLLELLV ETLGECGLL
19493	49861	C	19608	173	394	
19494	49862	A	19609	1	924	
19495	49863	A	19610	3	689	EVQEELEGFVRGAPHQLHQGP VEHLEAPHQ\HKFGKKVIYFNY LSELHEHLKYDQLVIPPEVLR\T MRSSRACTRAGRRLPPRHRR GPRCPHSSLASVCNTSKTKIKA NSSPLC*GSQ*RT*ERKACAPRA CSGDPPACRPSARSRGSTT/KGK PVNFDDYGDIHIPAVILKTFLE LPQPLLTFQAYEQILGITC/GGE QPACHSLPPDLTEPPRAQLRRPP LPHGLPACG
19496	49864	A	19611	1749	2411	APSCLVSEHSAPGPQRELQPPLL TFQAYEQILGITC\GSCPAQGW GAWSSDAVPQLLARRPPLPHGL PACGEWGRGELGVKPSGLPSH AGPAWGHQVRTVCATAHPQD CISPEGAVEEEIVGG*GC\TEGQ SQRVLQIWP\SQGVSSLSALVPL N\MF\TELLIEYYEKIFSTP\EAPG EHGLAPWEQGSRAAPLQEAVP RTQATGLTKPTLPPSPLMAARR

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19497	49865	A	19612	883	2164	EHRRPMRAQASHEGHRHPMRA QMSHEGYRRPMRVQASHENTG VP*GVQASHEGTGIP*EHRCMP RTQVSHEGTGVP*ECRRPMRTQ GPMRGTGVP*EHRCMPMRGTGV P*EAQASHEGHRHPMRGTGIP* GAQASHEGHRCPMRGTGVP*G HRRP/DENTGVP*GHRRPMRAQ ASH/REHRCP/DEGHRRSP*GHR RPMRAQASHENTGVP*GAQAS HENTGVP*GHRRPMRGTGVP*E VQGV*GHRRPMRAQVSHEGHR RPMRTQASHEGHRPMRTQAS HEGTGVP*EHRRPMRGTGVP*E FRRPMRGTGIP*GHRRPMRAQA SHENTGVP*GNR/PYHEGTGVP* ECRRPMRTQASHEGTGVP*EHR CPMRAQASHEGHRHPMSTQAS HEGHRPMRTQASHEGHRHPM RTQASHEGTASHEGHRPMRT QVSHEGTGVP*EFRRPM/PGHG HPMRTQASHEGHRPMRVQAS HENTGVP*GHRHPMRGTGIP*G HRCMPMRGTGVP*GYRHPMRTQ ASHEGYR/PSHEGTGIP*EHRC MRTQVSHEGTGVP*ECRRPMR TQVSHEGTGVP*GHRRPMRTQ VSHERHRRPMRTQASHEGTGV P*EHRCMP/MGHRRPMRTQASH EGTGVP*EHRRPMRGTGVP*EH RRPMRAQESHENTGVP*GAQA SHENTGVP*GHRRPMRAQASH
19498	49866	A	19613	1	552	VPQDSLGLAGQATPEIPLGL QLHTVLVQEIQELIEAQTRAPGP CAEVRALPAPAAEPEPAWEEAP PERALELEGAPAKDQTNEELPEI TA/PYC/EPLALTLELKAWLERE VGGRG\DQHSPSQQLPCCP*SW ARWQTCRQRAGHLAWPPVPRC REASLIH*NHSPAAAGPFILLILV YLCAGGA
19499	49867	A	19614	443	991	VDSRPMNLNRLMRTSGRRWTP RPQVDTRP*VNNKTQ*AIRPQ/C GYSPQVPQDSLGLAGQATP EIPLGLQLHTVLVQEIQELIEA TDTCSWSMCRSKSTASTSRWS Q/RPAWEEAPPER/GTGAGGSSS QGPDQRGAA*NHGGAGEH*KK AGRKSSE\RYACSQRQPPPPGM DAGPQLGIQAVCP
19500	49868	A	19615	16	450	

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19501	49869	A	19616	2	477	PRVRSGHSMDMRVPAQLLGLL LLWLRGANCDIQVTQSPDSL SVGDKVTITCRASQGISNGLSW YQQKPGQAPTLLIYAASSLQSG VPSRFSGSGSGTDFTLTISSLQPE DVATYYCLQDYTTPTVLQAIT KTPQR\RDV*VCTVLATPPGVIN WL
19502	49870	A	19617	2	675	LPLSSSALPTESGSHLPFSGIMA RPSDPLVKPQRSSKREPKKVHP GTQSDR\YVKIKR\NWAENPRG\ IDN\RV\RRF\KGQDLDAPTLG YG\SNKKTKAHACPSGFREVP VHNVQGSWEVACLMLQNL CCRGSVHNVFLPRNRQSPSWG KELAQGLSGVHPTPLARAAQL KEN*VRQLMCNKSYCAEIAHN VSSKNRKAIVERAAQLAIRVTN PNAR\SEENE
19503	49871	A	19618	2	527	VWAANMP SRLRK\TKLT\GHG AATGHGPHRPSTRKAPGGPR* MPGGPAIHPPGSNFRQNTHPQA YFGK\VG**KHYPT*KRN\QSFL PPTVNL\DKLWTLVQ*NRHRVK CLPKNKTGAAPHMLMLVRSGY LQSSGERGKLPKASLFFVEGPK FFSRRSLREEGLRGVWGGPVSL
19504	49872	A	19619	45	233	
19505	49873	C	19620	95	154	
19506	49874	A	19621	2	241	
19507	49875	A	19622	63	320	RQWGNRLVTA/WSFFSWLSDC EGPGYGTIAEVGQLWGIMAKD LLRHSLASEELALNQNLTCHDQ FAQSTRSSARACGSIFCSTTQGS
19508	49876	A	19623	2309	2560	RNREARFYMTTPNFTETKR/WF HERVCALEEREREVTKISRL RDNHRLVGDISQLKKELDQYL QAISDLEDCNGKRLQILEA

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19509	49877	A	19624	4994	7008	QWQQKPKLTNDNLKFIWNQKR DRIAKTILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRHI DQWNRTEPSETIPHIYNHLNFD KPDKNKKWGKDSL FNKWCWE NWLAICRKLKLDPFLTPYTKIN SRWIKHLNVRPKTIKILEENLGN TIQDIGMGKDFMTKTPKAIATK PN*QMGSNILNGQKLEAFPLKT GTRQGCPSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSQYKIN VQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNMPCSWVGRINI VKMAILPKVIYRFNAIPIKL PMA FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPNFELYY KATVTKTAWYWYQNR YIDQW NRTEPSEITPHIYNYLIFDKPGK NKQWGKDSL FNKWCWENWLA ICRKLQLDPFLTPYTKINSRWIK DLNVRPKTIKLEEDLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFATYSFDKGLISRIY NELQQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKKHMKKYS SSLAIREMQIKTTMRYHLPVR MATIKNSGNNRQ

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19510	49878	A	19625	1	764	GSSEKRKFKTGNQKLSMEVEK NQQMRSLSLYQQRVEGSKCAV RRKGGSPKPKAFLAAAEKFLN VPVMRSASHEQLVLTGDPNKT LPGSKSRLSGTDSPRACSTFPIW ATKIVTEMQVQLFAACRVQLIK HPRPSAARTAMEVLESGEQGV LQWDRKLSLSEPGDGEALMY HTACQGHEEQVWEEELQLGL RSGILLNHWKRQLVGGAGILRS AQLHSPYHHWQMISLVSPSPAV MAVMENDDICMVLCVKVMDE PNHILDAISEHQIPSLEDQWFSE CALWTSKAYENLVERHILGPHC RPTELETLGISEDIDHNPYLDF PGVAGLGSRRNVKERGWLSEM KKEGDIFMKIQG*AICPTSGPAE GLPPPTPVPHVPDRPCGT*GP/PP SPGSDSSPACGPTAARPA PRSP APPWRCGPRWAEDVLLTGLCK QQIAEPAFRLQFWWPI

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19511	49879	A	19626	1	1430	MNGTAEGQHPVHSTFNGEPQ SLSSSVRVKNQGRDQAE LGFQ GNGSTVPAAQARTIARARGSGS GGGDALQGGGAGAGPGATKR TARLLARGLRRAALRPDGRGV LGAGAGSSQRRGGGRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAA YHKSVWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLSGCYNLTDNGLGHAFV QEIGSLRALNLSLCKQITDSSLG RIAQYLKGLEVLELGCCSNITN TGLLLIAWGLQRLKSLNLRSCR HLSDVGIGHLAGMTRSA AEGLP GPGAAHATGLPEAHRFSKAHL PRADGPEAPQPQLLWGNLGRW PPAPVAHGQPAHAQPCAPCDNI SDTGIMHLAMGSLRLSGLDVSF CDKVGDSLAYIAQGLDGLKS LSLCS/RRGLRRAALRPDGRGV LGAGAGSSQRRGGGRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAA YHKSVWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLSGCYNLTDNGLGHAF/R AGDRLPARSQPEPLQADH*QQP GPHSPVPQGP/ARCWSWEVAAT SPTLAFCSPPGVCSASRALTSAA AATFRMWDRAPGRHDAQRGG G/LPGGAAHATGLPEAHRFS
19512	49880	A	19627	293	1520	TTMDGSHSAALKLQQLPPTSSS SAVSEASFSYKENLIGALLAIFG HLVVSIALNLQKYCHIRLAGSK DPRAYFKTKTWLGLFLMLLG ELGVFASYAFAPLSLIVPLSAVS VIASAIHIFIKEKWKPKDFLRR YVLSFVGCGLAVRGTYLLVTF APNSHEKMTGENVTRHLVSWP FLLYMLVEIILFCLLLYFYKEKN ANNIVVILLVALLGSMTVVTV KAVAGMLVLSIQGNLQLDYPIF YVMFVCMVATAVYQA AFLSQ ASQMYDSSLIASVGYILSTTIAIT AGAIFYLDFIGEDVLHICMFAL GCLIAFLGVFLITRNRKKPIPFEP YISMDAMPGMQNMHDKGMTV QPELKASFSYGALENNDNISEIY APATLPVMQEEHGSRSASGV RVLEHTKKE

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19513	49881	A	19628	751	2034	VSSSPTSLGCMRQKEYRIPKKL TNMPFLGSQPSLLALRSCHPTG RTCSA/SQVALFCLAAHRVVSQIG ALLAIFGHLVVSIALNLQVSFHI RLAGSKDPRAYFKTKTWLGL FLMLLGELGVFASYAFAPLSLI VPLSAVSVIGKTIIGHIFIKEKWK PKDFLSKFVLSFVGCGLAVVGT YLLVTFAPNSHEKMTGENVTR HLVSWILFCLLYFYKEKNAN NIVVILLVALLGKLTVVTVKA VAGMLVLSIQGNLQLDYPIFYV MFVCMVATAVYQAA*VSQAS QMYDSSLIASVGYILSTTIAITA GKGFYLDFIGEDVLHICMFALG *VLAFLGVFLITRNRKKPIPFEP YISMDAMPGKVNMDKGMTV QPELKASFSYGALENNDNISEIY APATLPVMQEEHGSRSASGVPY
19514	49882	A	19629	19	933	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFLPIHTQPSAH KDMTTNAGPLHPYWPQHLRL DNFVPM\DRPTWAYTGLGLFSV TGGLRSWTTWAVVQGRAPGLA PIGDFGRATVPCCWVLQWCGFI HLVIEGLVPFSNYERPCFGDQSL LYSQLW\KEYGQGETARYILGV TNFTV\CM\ETITSFA\WGEFSL WVIV\FLLQHPLARFIL\QLVVS VG\QIYG\DVLYFL*RATPTDFQ HGKPGPTPLLLPGFSFVFHEMP LWLVAPGSPLCLDA/V*KHPQ LMPQSNAWNAGPQPKPSKK
19515	49883	C	19630	113	257	
19516	49884	A	19631	143	330	HHGPVPFPRGLIS*HSLHCPCPT PGGKNVFFFCEYFLKLAGIETT NCSADKRGKKVCCLIPR
19517	49885	A	19632	3	432	
19518	49886	C	19633	112	192	
19519	49887	A	19634	1	4410	MARPLALPLTGMSAPGSSLTIP HTPSHPRSPSTPDTVSHPRSPSTP DTVSHPRSRYPDTVPPTLPVY TRHRVPPTLPVYTRHRPTHAPG IHQTMCPHAPGLHQTPCPTHA AGLHQTPSHPRSPSTPDTVSHPR SRSTPDTVPPTLPVYTRHRVPPT LTVYTRHRVPPTLPVYTRHCPT HAPGLHQTMCPTPRSRSLPDTV PPTLPVYTRHRVPPTLPVYTRD RVPPTLPVYTRHRPTHAPRLHQ TPSHPRSR

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19520	49888	A	19635	1	444	
19521	49889	A	19636	3	1017	SSRPVRPRPAARLSAMSSTQFN KGPSYGL\SAQ\VKNRLLASKYD PQKE\AELRTW\IEGLTGLSIGPD FQKG\LKDG\TIL\CTLMNKLQP G\SVPKINRSMQN\WHQLENLS NFIK\AMVSYGMNP\VDLFEAN DLF\ESGNMT\QVQVSLALGG KRPKTKGAAEGGLDIGVKYSE KQERNFDDATMKAGQCVIG\L QMGT\NKCASQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GT\NKCASQVG\MTA\PGTRRHI YEYQAGNPTSCDNFSM\SLQIM GYTQGAQTQSGQVF\GPGRPDI *TPSTCPQGT\ADGAPSGTG\DA CPDPGEVPEYPPYYQ\EEAGY
19522	49890	A	19637	1	479	MQGLRVSHSTFYTLIPEVTENP HRLDFHWFLSAQLERVASGTIL KKKESPPRPKVLGSAWDLPV/ PPGWCNSTALQ*SPRSDQV*SE RGMEAFFLPMPSESVASVCCRF SPWTSQKPQLSTSRDRKLQGKR *WFSTGVWAS*DHS*ERRCSQC PKTTCW
19523	49891	A	19638	2	501	FVPEERSSETALQRCSLPPGRRA APDPGLQGLRGLSGSGSELES RKAKLRAAEGLRRKTTEINQRD TADRCTRHH*SPGESPPKPSAF SL*LSVPRSGKLRFRLSPRREPA AN*SHRLRRHREKKCFHPFTL NLIASGTSLEGGGVAPTWTGR SQRALPSTL
19524	49892	A	19639	1	1122	RFLILINHAFVEYQDIFVASFPSI FFNIHCRGEGEREKGFGKDRT PPPSTLLCGSGHLPPLASRRPPR PRCACCLPGGPLSSSALEAG*Y WRFPKLSG*KRSHTPWVPQPPQ PLPNPSPGKWVWASSEALQ/GT RA*RGIAELTHLLRLPARRGTQ RPA\PGHRAGASPQFRREASSRG PGLRPRPGRTRELGFPKRRVWA TAASWPRGTEPCAAA*RRRRRR RRARGRELSRSTWSSDTESTF ALSCDPS*PRHQSVPKGRVGS KGKLANKGFFCPTWQRPPIRVAS VDMELLHFVPKRALPGFTIAISF LSSAPPLCPWYSGSNPWLRNPL KPRLAALFQRSAAPRLHFSGAA SLQVGERRQIRDFRVSAGA

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19525	49893	A	19640	14	618	GNENVKSGRKTSLSPFVLSDF ASSALLASDSSRWMSLQSASEC \PGRAAGSGPGYG*PVSEVTGG PLSAHTHSSL*TSQRGCPGPPE HHGAGPFP*GPKLKDVSGRGG NGCWGRRKPAHMGGLGPAT PLQFPPRPSPPPPPLGPPQ\PPPP SPPLGPASSPP/CLPHRPPPPPP PSRCVTAPCVTAPGPAPTGAAA RRH
19526	49894	B	19641	42	121	
19527	49895	A	19642	1	153	
19528	49896	A	19643	104	355	
19529	49897	A	19644	459	988	DPRTMNLAISIA\LLLTVLQVSR GQKVTS\LTACLVDQSLRLDCR HENTSS\SPSKYEFSLTRET\KH \VLFGTVGVP EHTYRSRTNF\TS KYNMEGPLYSAFH*ARTRGTL QVLQFHQFGALSPPIFLSRNV VVQRTNWVK\EGI\SLLAQNTS WLRLLLSLSLLQ\ATDFMSL
19530	49898	A	19645	1	950	
19531	49899	B	19646	55	1459	
19532	49900	A	19647	1	165	
19533	49901	A	19648	183	700	PNGNQPPRET PQRI SRGIQRLGT AVASSGGSRLPRASAEP AQG AAARRAAPGPAGRCRAARGAG AGSARRLP*APAH PAPP EQGRR/ SRTARSRAAPQPPPSQPQSPQL GPRPSQGAPQRRGPSSPGPRAG CRAQ*EALTPRLWRSSRTPSSR GLGPHVRGGIFSPKIPT
19534	49902	B	19649	71	264	
19535	49903	A	19650	3	810	GVSPCWPGWSRTPDFGSNPKCP PIRASPGAELQALSSTVTTPYW GILVTA VFPH*GLRPRQCRQDH PAGRQGPGEVPEILGQSGCT DRTWSKAGGRTQAPGPRSRAG RRVSGQEIRAPGLGCRHGG/V GAPWTPEAASPLTATEPSCPH/L QAPCGYMPLSVSPRRRYRGPA GDQKV KMLKFAFCLDYWQF LCLQPLHGAYKRDSLMTWIW GLLPEVTGAAGTTPNVHTSGR FFRACVFCPVHTLVKKEPHPGQ QEIMEPSPWSP

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19536	49904	A	19651	258	1378	REILSLDR LPGATPNQALSAEA ACPKGQTSLLCGAMGIQGLAK LIADVAPSAIRENDIKSY\FGRK VAIDASMSIYHFLIAVRQGGDV LQNEEGETTSHLMGMFYRTIR MK\ENGIKPI/YKSGELAKCSEL R\AEAELQLQQAQAAGAEQVV EKFTKWL VKVTKQHNDKCKH LLSLMGIPYLDAPIEAEASCAAL VKAGKVYPVATEDMDCFTFGS PVL MQHLTASSDYCKSIWSIGP KRAVDLIQKHKSIEIVQRLDPN KYPLPENRLHKEAYQLFLEPEV LGPESVELKWSEPNEEELVKFV CGEKQFSEERIHSGVKRLRTEK GGGEPRGP/DWTQPGRASPTKR PDHQEDQHTRSRSSEGS*GWL
19537	49905	A	19652	1040	2322	LPACPPASTPASTMSIMVTQKS YKVST/SRWSSGPQAFGNCSYA RGP GACISSLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEK\T LNNKFASSIDKVQFLEQQNKML ET/ESYINSLKQQLTGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEEIQLQSQILDTSVVLC MNNSHSLDMDSIIAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIK'ITIRKLLEGEESQL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSSESDVLPK

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19538	49906	A	19653	1040	2322	LPACPPASTPASTMSIMVTQKS YKVST/SRWSSGPQAFGNCSYA RGPACISSLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEK\T LNNKFASSIDKVQFLEQQNKML ET/ESYINSLKQQLETLGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEEIQKLQSQILDTSVVLC MNNSHSLDMSIIAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLGEESQL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSSESDVLPK
19539	49907	A	19654	152	207	
19540	49908	B	19655	75	402	
19541	49909	B	19656	1	2319	
19542	49910	B	19657	1	1341	
19543	49911	A	19658	198	1118	LHAPNSLHHHLPRDLL*LLPLPL QHRVSDPGLHSALRPMEEHRA QS*QPSAPEDAVQA*WGHGGH SPGPDRA GCHHCRGDQERVST HHVLPVCHHPDDAYGGCGAG WNPDL/PGQMRSHWMSPKIRPA NWTRTSWWALPQAPGLSPGAQ SWPSFVPRTTPTTPGTTCTPSW *SWRSTSR TSSSLNPFTESLKNS LRTSKPFGWSQSAMATPCPLLP PASRVELWPETWPLGQGHATS SQWKCVPERKL*QGGEAGGEQ LGREPKPSPSSFLTGQRQEKSP EEYCSLLVPLQYFGSRGTHADL LHG

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19544	49912	A	19659	1	2707	MPGPHPASASCPPRLFTPRRRAF CPLRICAPLAAAAFCPPRFLPHT RRR AFLLLCRRGFLPPPCLGGG LAAAFFPHPLPFLRPHRRGFLP HRRRGFLLPRLGFLPAAAFYPP PPRVFARRGFVPPSPRLFARRA FCHTPPAAAFSPSAAAAFCPTA DTAFCTLAALAFRRGFLPPRC RGFLPLRHRRSFLPHRRRGFLPT AAFCHRGFLATAFYPPRLFAP RCHGFLPPCRSDFFAAAAFCPR RRGFLPLSPPLFAPA AVAFCPRH RGFLLPRLFAPVTA AFCHRDFL PPPRIFVPAATALRAGAADSA ASSTGVLARAALRGPCGLHRV ALPVEAMGEKKEGGGGGDA ATEGGTGAAASRALQCGQLQ KLIVIFIGSLCGLCTKCAVSNDL TQQEIQTPEPAKPAKPASQTRQ PSQPSHPASQASQTSQPAKQPA SQASQPAKPAKPPSQPSQPSHR ASQASQATQPERPASQPASEPS QPSLPASQASQDRQPAKPAKPD SHPRQPSQP/YQPSQPASQASQA SQPAKPSRQPSQPRQPSQLASQ ASQSTQPLKPAKSPVQQSQPSQ PASPDSQASQASQATQPAKPAK PPSQAAQPAKPAKPPSQPACQP PSQRAKPAKPARQPSQPSQSSPP ASQPSQACQPSQPGSQASQASQ AAKPGMPAKPARQPSQPSQPAS QARHASQAIQPAKPAG*PSQTS

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19545	49913	A	19660	1223	2286	RQCFKATEQPPAIHHPSSQPSRQ PSSQPPIYPSPICGRKSGIQPKFQ LNG*MVNG*MDE\SRRERHEWP CNYQVRPKAGEKQPGAEANRE TRPEGGTP/RGERGRQGPATRR QKSTPEAGPSDLEKQIARQEAP AGTDEIERQQARPH*AP*KIPVE WVNGEWLNGRMPGDPHEWQC NYQPAIQPAIQPANQLSIHNLW TQFRHSTKIPVEWVNGEWLNG RMPGKHHEWQCNYQPAIQPAI QPANQLSIHNLWTQFRHSTKIP VEWVNGEWLNGRMPEDHHEW QCNYQPAIQPAIQPASQLSIHN MWTQFRHSGQIPVEWVNGSRL HGRQQGIFMHGNATSSHPSIQ PAIQPAIQPANQLSIHNLWTQFR HSTKIPVEWVNGEWLNGRMQR NIMNGNATISHPSIQPAIQPAIQ PVNHLSIHNLWTQFRHSTKIPV EWVNGEWLNGRMPGKNHEW QCNYQPAIQPAIQPANQLSIHNL WTQFRHSTKIPVEWVNGEWLN GRMPGDHHEWQCNYQIAPML QSNRTAASHSPSIQPAIQAAIQS ATHLSIPNLWTQVRHSTKIPVE WVNGEWLNGRMPGRDMNGH ATIRYGPKPEKNNRAPRQTEKQ GQKGAHQRRREGKARAGNEETE KYSRSRAIRPKTDSASRSSRGH RRNRKAASAATLGPIEDTNQNK LHVRTGLEVK AISIQGPGTLM
19546	49914	A	19661	39	599	GASPNQGQNRPHARQRAPPQ/G /PPGEPERRAPLPSGHGEPICRHR PPFPQPP/AGTQKPLLQGGPGG *PAENAPTAALGSPAPPRGCQA APPPRSGAGRPDLPTLAGPRPAP A\PPPSAAPPPPSGAPSR/PAAG RQRLSGVSSGPSLGGW*VGRG RGLPAFAQIAGHQVGPRRRRTP AGRKPRSPAGPR
19547	49915	A	19662	39	599	GASPNQGQNRPHARQRAPPQ/G /PPGEPERRAPLPSGHGEPICRHR PPFPQPP/AGTQKPLLQGGPGG *PAENAPTAALGSPAPPRGCQA APPPRSGAGRPDLPTLAGPRPAP A\PPPSAAPPPPSGAPSR/PAAG RQRLSGVSSGPSLGGW*VGRG RGLPAFAQIAGHQVGPRRRRTP AGRKPRSPAGPR

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19548	49916	A	19663	1	379	YFPHTAIRYPPHLNRQDPLKDL VSLACDPASQQPGPLNGSGQLK MPSHCLSAQMLAPPPGLPRLA LPPATKAATTSEGGATSPTSP/S PGIWDSKGLLPSPLLHRPRNPR GQHSRPPAHVFGGKLE
19549	49917	A	19664	3	285	
19550	49918	A	19665	2	1556	RLEFPGRFRSAPAPAGPAPPA APGMYSSPLCLTQDEFHPFIEAL LPHVRAFAYTWFNLQARKRKY FKKHEKRMSKDEERAVKDELL GEKPEVKQKWASRLAKLRKD IRPECREDFVLSITGKKAPGCVL SNPDQKGKMRRIDCLRQADKV WRDLVLMVILFKGIPLESTDGE RLVKAAQCGHPVLCVQPHHIG VAVKELDLYLAYFVRERDAEQ SGSPRTGMGSDQEDSKPITLVT TDFQESFVTSGVFSVTELIQVSR TPVVTGTGPNFSLGELQGHAY DLNPASTGLRRTLPTSSSGSKR HKSGSMEEDVDTSPGGDYYS PSSPTSSSRNWTEDMEGGISSPV KKTEMKSPFNPSPPQDSPRLSS FTQHHRPVIHVHSGIARSPHPSS ALHFPTTSILPQTASTYFPHTAIR YPPHLNPQDPLKDLVSLACDPA SQQPGPSWYLG*QRSSSLAPSPS SQESQGAAQPAPGPRFRWKIRV NKNTPADSQPGQKDKTHRRT SSGGKEKTKAE
19551	49919	A	19666	1	477	
19552	49920	A	19667	1	440	WTQDM/EGGISS/PVKKTEMAK SPFNPSPPQDSPRLSSFTQHHRP VIAVHSGIARSPHPSSALHFPTT SILP\QTASTYFPHTAIR\YPPHL NPQDPLK\DLVSLACDP\SSQQP GP/SYSPPDTSANR\SFVGLGPR DPAGIYQAQSWYLG

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19553	49921	A	19668	2	1963	CPTGFEHGSPCARRTPTGRVSV TRCRRRAWGSRLRVSCGPRAQ LQAEVQEEQGGGVLCVIVMP LTPGRTPLRPRGRALCNGRGGV WGGGGSPPRGLLPAQAPGDPEV CKFRFLDRCFPPYAGPSDLSLR GRAVGPPSASLALLTSRLSGLQ DEFHPFIEALLPHVRAFAFTWF NLQARKRKRYFKKHEKRMSKDE ERAVKDELLGEKPEVKQKWA SRLAKLRKDIRPECREDFVLSIT GKKAPGCVLSPNDQKGKMRRI DCFRQADKVWRLDLVMVILF KGIPLESTDGERLVKAAQCGHP VL/CALKPQH\GVAVK/ENLDL YLAYFVRERDA*QSGSPRTGM GSDQEDSKPITLDTTDFQESFVT SGVFSVTELIQVSRTPVVTGTGP NFSLGELHAHLAYDLKPASAGL TRTLSSTFSSGNKRYKAGSMEE YVDSTPWGDD*T*PSSPTSSSRN WTEDMEGGISSPVKKTEMDKS PFNSPSPQDSPRLSSFTQHHRPVI AVHSGIARSPHPSSALHFPT\TSI LTPDGPSPTFPHTAIRYPHNLN QDPLKDLVSLACDPA\SQQP\GP LNGSGQLKMPHCLSAQMLAP PPPG\LPRLALPPATKPAATTSEG GATSPTSPSYSPDTPANRSFV GLGPRDPAGIYQAQSWYLG
19554	49922	A	19669	332	551	ESWLGRGHQPPP\PGLFHSPKPS SGTAVLPAPWRPPSPGPGAGDD ASPS*AGPGAGANPGA*QRS ASGEKGS
19555	49923	A	19670	1614	1673	
19556	49924	A	19671	72	227	EEFPMGHATA*WSCEKRATILQI QEW*IQQLAPCAWQSHRHST RAHESSHG
19557	49925	C	19672	1	604	
19558	49926	A	19673	653	889	VYPQTNWKQNTGTRVFIAALF TM\AKGENK*PSMG EW/IKQM WSIHTMERHAAIKRIEAQVYAT M*MKLKSMILLERNQT

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19559	49927	A	19674	75	1619	EVSIPAQTMWTADEIAQLCYEH YG\IRLPKKGKPEPSHEWTLA AVVKIQSPA\DKACDTPDKPVQ VTKEVVSMGTGTCIGQSK/M* RKNGDIL\NDSHA\EVIA\RRSFQ RYLLHQLQLAATLKEDSIFVPG TQKGVWKLRRD\LINVFFSHT PCGDASIIPMLEFEDQPCCPVFR NWANNSSVEASSNLEAPGNER KCEDPDSPVTKKMRLEPGTAA REVTNGAAHHQSFGKQKSGPIS PGIHSCDLTVEGLATVTRIAPGS AKVTDVYRTGAKCVPGEAGDS GKPGA AFHQVG\LLRVKPGRG DRTRMSCSDKMAR\WTVLGC QGALLMHLLEPIYLSAVVIGK CPYSQEQAMQ\RA\LIGRCQKVS ALPKGFGVQELKILQSDLLFEQ SRSAVQAKRADSPGRLVPCGA AISWSAVPEQPLDVTANGFPQG TTKKTIGSLQARSQISKVELFRS FQKLLSRIARDKWPHSLRVQKL DTYQEYKEAASSYQEAWSLRL KQVFGSWIRNPPDYHQFK
19560	49928	C	19675	45	140	
19561	49929	A	19676	3	354	AKIKTGYK\REHINLGCDMDFDI VGPSIRGALVLGYEGWLAGYQ MNFETAKSRVTQSNFAVGKYT DEFQLHTNVLLLNLERTCFLTG PTPTPPPLSWLPGTTFSLTWAM TGRYTINSQ
19562	49930	A	19677	1	983	AARSAPLPGSAPCLRVAAPAVA ASEPAATSSEQKMAVPPTYADL GKSARDVFTKGYGFLIKLDLK TKSENGLEFTSSGSANTETTKV TGSLETKYRWTEYGLTFTEKW NTDNTLGT\EITV\EDQL\ARGT* SLTF\DSSFSP\NT\GKKNAKI GYKREHINLGCDMDFDIAGPSI RGALVLGYEGWLAGYQMNF* DCKIPE*PQSNFWQLANKT\DEF QASR*M*ND\GTEFGGSIYQKV NKK\LETAVNLPWT\AGNSNTR FEIAAKYQ\VDP\DACFSGKVNN SSLIGLGYT\QTLKPGIKLTL SAL\LDGKN\VNA\GGHKL\GLGLEF QA

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19563	49931	A	19678	551	831	CHPSSHVLCAPASLSDHQWPP ALCPSSRPQ/PCALPWSGTLSSR PQPCPTHPSGIEA*LCLPLVTQL G*LPLAPAPQHLVPPCPSTCPTM LKL
19564	49932	A	19679	47	980	VCQYCTARMADFGISAGQFVA VVWDKSSPVEALKGLVDKLQA LTGNEGRVSVENIKQLLQCLVP GSTTLHSA\EILA\EIARILRPGG CLFLKEPVETAVDNNSKVKTAS KL\CSALTLS\GLVEEKELQREP LTPEEVQSVREHLGHESDNLLF VQITGKKPNFEVGSSMQLKLSI TKKSSPSVKPAVDPAAAKLWT LSANDMEDDSMDLIDSELLDP EDLKKPDPA\LR\ASCCEGKK RKACKNCTCGLAEELAEKEKSR EQMSSQPKSA\CGNCYRGAMPS GCASCPYLGMPAFKPGKEVLLS DSNLHDA
19565	49933	A	19680	29	1270	FPFWPAVFQVCQYCTARMADF GISAGQFVA VVWDKSSPVEAL KGL\VDKLQAF/TPGNEGRVSV\ ENIKA A VAILPTKNPSFGHYFV Q/CLVPGKAPLWHS A*DFWAG NPPGFLRPGWMFFFLKEPVETA VR*Q*AKWK TASKL\CSAL\TLS GLV/EKLKELQREPLTPEEVQSV REHLGHESDNLLFVQITGKKPN FEVGSSRQLKLSITKKSSPSVKP AVDPA AAKL\WTL SANDMEDD SMCIFCGCSLTHRWPLEHV VQV E/IMMDQPKRRTRVDT\FFTPRT PKFPSRSPASHFSFSIKQKT/TRP VSLIALNTL\QDLIDSELLDPE DLKKPDPSLLRAASCCEGKKR KACKNCTCGLAEELAEKEKSR QMSSQPKSACGNCYLGDAFRC ASCPYLGMPAFKPG\EKVLLSD
19566	49934	A	19681	3	405	QDFGTRALAAVQIKNGGSWWC PPVSLAAGVGPRPQLGRPYVRV APHGQV\GLSFAMWKTLTFFR GASPGVGSQAMLCVA*SPHH WRARRDPEFIAYP\HLR\IRTKP\ FPWG\DGNHTQQYITPH\VNPLS NLATED

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19567	49935	A	19682	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADPR\QAGIDSLLRK IYEIYSDFALKNP\FYSLEMP
19568	49936	A	19683	1	2034	
19569	49937	A	19684	202	453	RRLWRGSCPRCGGKARDGMG VRGR/YSEG/RERV*FGGPPRGS TWPLCGRWRRPARPSAPLRWS AMCPNTSDAAGACAAVRCG
19570	49938	A	19685	269	326	
19571	49939	B	19686	98	562	
19572	49940	A	19687	1	2223	
19573	49941	A	19688	374	1107	IPVSERQGS DWRFFSVYVVNKA GGLIYQLDSYAPTGLRLEKTF\S YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVL\AINGM\DVNG RYTADG\KEVLEYLG*PLLNYP VSIRF\GRPRL\TSNE\KLMLGLP CFHSLFAIG\SQACLPGTREASR HLKILGRQDTFK\LH\CYQTLTG IKFVVL\ADPR\QAG\DSLLRKI YE\IY\SDFALKNP\F\YSLEMP IR CELF DQNLKLALEVAEKAGTF
19574	49942	A	19689	119	288	ALHLNSSDVHQKLLPVQSLKKS *GRHRNNTCNQRVHA/SSTSRE FFTKLNKNDNDILKP
19575	49943	A	19690	92	317	KSVGPNFPLPSGNMNE DN*M H*HPFSSVTQAFRLRVLQSI\QR PL*TFNPGSSSLFSSISGQSNFPL GVAVLRP
19576	49944	A	19691	27	389	NFKTLKNN*YK*MCSQEIKILS *KLIRFWYIEIHAFPPWAHG VVF CVAQEFCLPTVVLLPVPRLLIM KDMVRR LQELRHTEQVQRAYA LNCGEGATVSYEIQIRVLREFGL ADAAAELLQN

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19577	49945	A	19692	313	2255	KTPQVQQPFPRQTGAAGAGAP SGRSGERAAGRAGPSGGSGGG QDSAHAGEAYRVRGILLRKTfq CLKDYFLTYTSSKVVPKVPC RQVLTIDKCSLPRSSHRNARTV SNDFPRKSCSRERCTHCMRPPE GRRPPNGNMNSWKWPSGDESK WRRGEPGAVPEPEPLTGEERAA AAAVGGGWPGVLAPVRTAVL VAAAAEATAAVPAAAAAAGG ASGHCNHPVMQGRNLSHRFLL PLHHSPYQFGTSSYSQQGYGCE SKLYSLDHGHEKPQDKKKRTS GLATLKKKFIKRRKSNRSADHA KQMRLLSGWDVRDVNALVE EYEGTSALKELSLQASLARPEA RTLQKDMADLYEYKYCTDVDL IFQETCFPVHRAILAARCPFFK/I TAFFLTRVWGRDNNGHQYSW Y*YAHVFCFVTLPLYRRVWEW EDSRFQNVLDILVQLSEGIWEHQI PLM*DMRGTLI/DMCYDVL SFSSDSELVEAFGGNQNCLEEE LKAHKAVISARSPFFRNLLQRR RTGEEITDRTLRTPTRIILDESHIP KKYATVILHCMYTDVVDLSVL HCSPSVGSLSEVQALVAGKPN MTRAEEAMELYHIALFLEFNM LAQGSCWECIPPNDENQEQRS EGSRKWAPTREGSKGRSHASA
19578	49946	B	19693	4	3923	

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19579	49947	A	19694	1	2154	MEYYAAMKTKEIMSFALTWIE LEAIVLCELTHVLSELMQKQKT KYHMLSLGSPVPTFALWNFDV AQDFHHFIENARSSQCRGRPRM TGAGAGAPSGRSGERAAGRAG PSGGSGGGQDSAHAGEAYRVR GILLRKTFQCLKDYFLTYYTSS KVVPVKVPCRQVLTIDKCSLPR SSHRNARTVSNDFFPRKSCSRER CTHCMRPPEGRPPNGNMNSW KWPSGDESKWRRGEPGAVPEP EPLTGEERAAAAAVGGGWPGV LAPVRTAVLVAAAAEATAAVP AAAAAAGGASGHCHNHPVMQG RNLSHRFLPLHHSPYQFGTSS YSQQGYGCEKLYSLDHGHEK PQDKKKRTSGLATLKKKFIKRR KSNRSADHAKQMRELLSGWD VRDVNALVEEYEGTSALKELSL QASLARPEARLQKDMADLYE YKYCTDVDLIFQETCFPVHRAI LAARCPFFK/ITAFFLTRVWGRD NNGHQYSWY*YAHVFCFVTLPL LYRRVWKEDSRFQNVLDILVQL SEFGTPNSLDVDMRGLFDYM CYYDVVLSFSSDSELVEAFGGN QNCLDEELKAHKAVISARSPFF RNLLQRRIRTGEEITDRTLRTPT RIILDESIIPKKYATVILHCMYTD VVDLSVLHCSPSVGSLSEVQAL VAGKPNMTRAEEAMELYHIAL FLEFNMLAQGSCWECIPNDEA
19580	49948	A	19695	1	163	
19581	49949	A	19696	1	207	
19582	49950	A	19697	1	579	PTRPGQAGSSSAMAAQRLAKR VL\SKLQSPSRARG/PCAGSPGG LQK/RGHARVTVKYDRPGSLQR RLDVEKWIDGPLEGLYRR\QEA D\MPMRSNIDELLE\LESEE\ERS RKIQGV/LRDS*KSCGKPVEDFI\ QELLAQLQLHRQ\PGLRQSPS HDGSLSPQL\DRARTASPLTLA LFPGPPERRPALLCVLSCI
19583	49951	A	19698	2	151	PPSPPLPPPPLPPAPSLPLSLPSF DLPQPPVLDLGV/LF*LCRKKI SVS
19584	49952	A	19699	2	310	

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19585	49953	A	19700	1	688	LTWMTERVDFTALLPLEPPLPP GTLPPQSPTPPDLEAMASLLKK ELEQMEDFFLDAPLLPPSPPL PPPPLPPAPSLPLSLPSFDLPQPP VLDTLDLLAIYCRNEAGQE\EV G\MPPLPPPQQAPSFLPP\QPSR WGPLTHIPGQPTRGGPAKQKEE RPRNKSAALKVTPSGKRARG*S PWRAKSQGLEGTEFASLKERA\ ESVEREIQ\YVKD\LLIEVYKARS QTRSC
19586	49954	A	19701	3	902	AAMATPARPGEAEDAAERPLQ DEPAAAAAGPGKGRFLVRCFQ GDEGACPTRDFVVGALILRSIG MDPSDIYAVIQIPGSREFDVSR SAEKLALFLRVYEEKREQEDC WETFGGAGGEASPA*RRSSSS GTRRWTRWL*LGSSATATCW PC\GESDRQVLDLD/LGSTNARS SCARGRAGSGTCQGPSSWGPR G/CYSWYKGQPKTCFKCGSRTH MSGSCTQDRCFRCGEEHLSPY CRKGIVCNLCGKRGHAFACQP KAVHNSVAAQLTGVAHNLNTR LPARVNTQASLSLLKCPKLFF
19587	49955	A	19702	1359	1981	QSPFNDTLPGVPVSA*LHSLPPE HHPSKG*GVAKSPPVYPAGILL VCNNCAAYRKLLEAQTPSVRK WALRRQNEPLEVRLQRLERER TA\KKSRRDNETPEEREETDEQ RARRLQRDREAMRLKRANETP EKRQARLIREREAKRLKRRLEK MD\MMLRAQFGQDPSAMAAL AAEMNFFQLPV\NGVEL\DSQLL GKMAFE\EQNSSSLH
19588	49956	A	19703	1	1875	

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19589	49957	A	19704	1	673	MSAKDGTCTLQDCMYKDVQK DWPGYSEGDQQLLKRVLVRAH NTQRQRQNERSDTRPCQRAAP RRFSHGTRRGTLPLASPDRAA PRTGHCRTQRRLDRTGGGFPL TGAWAMLADWIHEGTPSRGRS DNDEPSAGSVGGLRQHGPGR APKLTTTKVKALASPVLGQKIA ALCLGLTAQGLNIMDNPGSLAI HVHPDSVLTRKTNPCTHIWGFT QREPLVANMSAKDGTCTLQD CMYKDVQKDWPGYSEGDQQL LKRVLVRAHNTQRQRQNERSD TRPCQRAAPRRFSHGTRRGTL LASPDRAAPRTGHCRTQRRLD RTGGGFPLTGAWAMLADWIH EGTPSRGRSDNDEPSAGSVGGL R/HAWPRTKSPKANNH*SESTG QPGAGPKNCSPVLGAYSPGPQH HGQPLPGHTCP/SRTQC*PGRP TPAPTSVSLRGNPLWWPT
19590	49958	A	19705	1088	2273	SPCLLTGGHLPADTSYRRAPAG IWQVPLWDEASQRKE*YQHQQ KKMSTQKPHPKDHNSSPAREQ/ SSMENKFHELTEVGFRKITSLE KNINDLMELKNTARELREAYTS IKSRIDQAKESISEIEDQLNEIKC EDKVREKRMKSNKQNFQEIWD YVKRPNLRLTGVPESDRENGTK LENTLQEIIQENFPNLAQANIQ IQEIQRTAQRQSSSRATPIHIVR FAKFEIKEKMLRAAREKDISMR QKINKDIQDFNTVLDQVDLIHV YRTVHPKSSEYTFFSAPHHTYC KTGHIIGSKTLLSKCKRMEITN TLDYSAIKLELRIKKLTQNHTT TWKVNTLLVNEY

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19591	49959	A	19706	318	873	AYELTPEPSPLPVFPVSADGSTT HPLADKRKASPVPEQHEEHLPA RPVTQRCLTYFPNITTASEFGP ATGFRARRSGRGSTVCCNPGCY PRARPEPEPRGTTPPSVSAPRAAQ EAPARQR\AGPVLADTVP/SPAP RGKRDISPLFGNAHSASPKPSLD LWAPPP*AAGRRGPQQA*DVTE DTQQQWSAMAVGGTAKWM AALGRFLVTYVEVEGVKLQTF TVTTLTQSFKYSLSKYLQQQPL LSSRTIYPTFYLLSLRLNRAFK LNAAEAKPMSSPQNLVFLCFL SLQMAAPPRLQTKGKQAQCQS STKSTFQGRSLRGVSPTLSPTS QQPRNLDQQLASEQGEVGEAP LCAVIQGVIPVLGRSRSREEHPP VSALPGLHRKRQRDKEAGPVL ADTVPFRPHAGKGTFLRCLET TRRAPNPRWTFGLPLRKLQGA VAHSRPEIRTHSVNRT
19592	49960	A	19707	1	690	DQDMTSSDIPVRLEGSLWLP*IF IGTFKAFDKHMNLILCDCDEF KIK*GVDCGRRLEDGNLSG WAKQ*SLVSMTVEGPPPKDVS QSRKP/CWRRGGPTVSQALC*IL YPSWGSHPGSCRTCWASPWG WRAIPTGEELGKGYHLLVAKIK DKGEGP*FSNPVPTWPWGSSPT YGPRSTPSR*GAHKETSAN**K MP\SWINDEI*PPMGMPPPGMRP PPPGMRGKCLQW

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19593	49961	A	19708	1	1348	MVFWARPRTLALLCAALGLGAL YTATPAPTVAKRGGTAQALS SEGASPKPWLLRHGIEPCKQSY WEVRTEQSPGVSERKAAAPVR GLEIKLPSPWDKAPEGGGGCGH SFSRLKCSFMPVLKRAVDLPAQ RSSPANGQTACSSGSLAPVLPD WEIPPSKGRQTPYATGELRLAS DGCPSGTLKPEEGTDSNLCCSA SSAESNNININININKKDAHGKT PSKGPQHQRSLDKSMKTRKN HHKNAENSKNLNASSPPKDHN SSTAKEQNWTENEFDELTEVGF RRRVIANSSKLKEHVLTQCKEA ENFEKILEELLTRITSLEKNINDL MELKNTAQEHREAYTSINSQID QAEERISEIEDKLNEIKREDKIR GKRIKRNNK\SLQEIWDYVKRA NL*LIAVVPLNKITSPRTSETLST STNMSRSTLSCLLSSFCPASCT ATSAALF
19594	49962	A	19709	718	1138	GGRAAEGSQPPVAEPRCSRGRAR ALPLPDTSWRQPS/APQAAP*D VELPASPSAPFAVLLSKPRLSQN KPKSPFSVASP*HGDKRQPSRH LI*IPHLSSRAPVHS/PLGWPSNR K/HKHLRPDTAHAPAEGPPLNY VRKQKQKS
19595	49963	A	19710	5	760	RAAACGGAAPGRKRCAPGRKR CGPRRKRS LGPPTLGQRPRQPS QQLRKPRRRRGSPGSLPKSSPLP SSTGKTGWSTRGRSVRPPVTT RCCPPGHPCSRRAPSCTARAPLP PT*PPTTAPCRASPPAPRPPRRPR PPPGTRSPTRGRCRWTRSGAG TSRCSWRAGPGTAPAAAGARS RPGAPGVSAAVPCAAACSWMT SAPEVRAASSPGTPSRGSGGRS HPPCSRGLPTTGATTAPAPG CWSCRRRS
19596	49964	B	19711	180	300	
19597	49965	A	19712	249	700	RQDPVSGGQSCPASCPSLWAA ARVWLGGQ\ PAPERAR*CPVCSSC PGGAPEDTPEAGGCGSGCRC CLRTQEPPAPLQPPHPPMAQTP REEVGRRGWTPGCPGTDPCLW GLRLLCPLWDPHRSGRTPWAQ VQRDTTETKAQRGLVRCQRGC
19598	49966	C	19713	273	485	

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19599	49967	A	19714	35	779	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLSAPHGGSGLHTKGAL PLDVTTFY/KDYGDKLNMESE KYKLDKESYPVFYLF RDGDFEN PVPYTGAVKVGAIQRWLKGQG V\YLGMPCLPVYDALAGEFIR ASGVEARQALLKQGQDNLSSV KETQKKWAEQYLKIMGKILDQ GEDFPASEMTRIARLIEKNKRSC KKA VCD FPGFGG GREGRVNLL AVSPLWNIRG
19600	49968	A	19715	2	253	
19601	49969	A	19716	494	1443	LAVPRPAYGPRSPGSLLRIPVPG LHLLNLNVWSRGSAALHTKG ALPLDVTTFYKVIPKSKFVLVK FDTQYPYGEKQDEFKRFAENSA SS\DDLL\VAEVGISDYGDKLN \ELS\EKYKL\DKESYPVFYLF RDGDF\EEPSSHYTGGS*RLGAIQ RWLKGKG VYLGDGLELVCT V*LTPLAGEFIR\ASGVEARQAP LEAGA QDNLSKCERRLRKKW\ AEQYLKIMGKILD\QGEDFP\AS EMTTESLGLIEKN\KMSDGKKE EL\QKSLN\LTALPRRKGA EKR GAVNKA VCD FPRVWWEYGRG ELTL LAVSPLWNIRG
19602	49970	A	19717	286	332	HHHHHPHYHHHHHPHYHHHH HPQYHH\HHPHYDHRHRQGD HHGQLQYDDDHPQCHQHDH LRCEHQHYIQ*WLINNLRASRY KPLLNIMLVFAAEMIVLVALGL MVVVVLELTVVVALTMTVVVI VRMMGGDIGDDGGGGSGDDG GGSGDDGGGV MWQFFDSMS KNDSIPTTTTTTIPTTTTTITIRA EQFTILT WKPVVSSQKNTSSFR
19603	49971	C	19718	1	546	
19604	49972	A	19719	1	90	
19605	49973	B	19720	217	951	
19606	49974	B	19721	67	1708	
19607	49975	B	19722	218	3267	

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19608	49976	A	19723	1	634	LGRLSFPRPEQDPDGHRAHPSSP PRRRPHARGRRGPRRHH/YHD TGANRAPEVRPPCPES/SPVGVA AFEPNGLRGQQSPRSPGAPKG L*PTPPSASSSPKPREPSALGRPC CRCEESRFLEHRNSNPRVKDSR QARGRHAEFHGRTGVFERRRS RDHLPTHFPASVRWEKLSWCA RKNGLSGLRLCHGSQHFGYSN RKVGTESLNQVWE
19609	49977	A	19724	3	1090	
19610	49978	A	19725	1	609	
19611	49979	A	19726	23	636	FSYLPPGPSHGTWGLWELQFK MRFGVCRHLMEDSMDMDVSP LR/PQNYLFSCELKADKDDHFK VDNDENEHQLSLRTPTVSLGVF EITPPVLLWLKCGSGPVHISGQ HLVAVEEDAEEDEEEEDVKLL RISGKTKTFMATNGKEYKHYKI SSEKSLDNKYKTRTPGFQAFGF EDLHPWPLGSQAFYLSLRVTPP VFLVLRLLDFD
19612	49980	A	19727	1	830	MEDSMDMDMSPLRPQNYLFGC ELKADKDYHFKVDNDENEHQL SLRTVSLGAGAKDELHIVEAEA MNYEGSPIKVTLATLKMSVQPT VSLGGFEITPPVLRKCGSGPV HISGQHLVAVEEDAEEDEEEE DVNRVLFMKP/KRQGPQAYVR GFGVQLEIGSH*DPEQQF*RD SAQPSLATPSTPHLQALLCLSGQV LRLPLWGQRL*GLQGLLPPQHP EEHGVHVSPGQELHHQQGDPE PLPVLPTAEVL*SGHVQGVCEK RPKQEEEGGAQARVL
19613	49981	A	19728	1	684	
19614	49982	A	19729	3	535	DSVLRGCSLEQRSFISVRLLSYL SACRHPMEDSMDMDMSPLRPQ NYLFGCELKADKDYHFKVDND ENEHQLSLRTVSLGAGAKDEL HIVEAEAMNYEGSPIKVTLATL KMSVQPTVSLGGFEITPPVLR LKCGSGPVHISGQHLVVYRRK HQELQAMQMDCRALSTS*ASS APRPS
19615	49983	B	19730	1	2268	
19616	49984	A	19731	198	472	AHDIGCEVSPLVLEVARDEGP AHRPRFSH*SSHCSHWGTSQRA APPPCHPCIQTTW/PGAVTGLG G*PKTRSGPGKDRSSGAASSFP GGRV

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19617	49985	A	19732	92	2049	LTALPPAVSPGGHSSSSSRTIS GIT*ELQR/LLQAVVPGPWQED VADAEECAGRCGPLMDCRAFH YNVSSHGCQLLPWTQHSPTHTR LRHSGRCDLFQEKGEWGYMPT LRNGLEENFCRNPDGDPGGPW CHTTDPAVRFQSCGIKSCRVAA CVWCNGEERYGAVDRTESGRE CQRWDLQHPHQHPFEPGKFLD QGLDDNYCRNPDGSERPWCYT TDPQIEREFCDLPRCGSEAQPRQ EATSVSCFRGKGEGYRGTANTT TAGVPCQRWDAQIPHQRFTPE KYACKDLRENFCRNPDGSEAP WCFTLRPGMRVGFYQIRRCT DDVRPQDCYHGAGEQYRGTVS KTRKGVQCQR/WSLE/TG*DYP ATTSLPLPPRFTFTSEPHAQLEE NFC/RDPDGDSHGPPWCYTMDP RTPFDYCALRRCDQVQFEKCG KRVDRLDQRCSKLRVAGGHPG NSPWTVSLRNWQGQHFCGGS VKEQWILTARQCFSSCHMPLTG YEVWLGTLFQNPQHGEPLQR VPVAKMLCGPSGSQLVLLKLE RYVDNLGGWTKCEIAGRGETK GTGNDTVLNVALLNVISNQEC NIKHRGHVRESEMCTEGLLAPV GACEGDYGGPLACFTHNCWVL KGIRIPNRVCARSRWPAVFTRV

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19618	49986	A	19733	2	2296	HSAGQRSPSNDQVLRGTQLH LLHAVVPGPWQEDVADAECA GRCGPLLLSRAFHYNVSSHGCQ LLPWTQHSPHSRLWHSGRCDLF QEKGEWGYMPTLRNGLEENFC RNPDPDGGPWCHTTDPAVRF QSCGIKSCRVAACVWCNGEY RGAVDRTESGRECQRWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTPQIEREFC DLPRCGSEAQPRQEATSVSCFR KGEGYRGTTANTTTAGVPCQR WDAQIPHQHRFTPEKYAC/KVR WAGGRALGRAAAGETGGG*SR A*GWRLAG*G*VERLLRDLREN FCWNLDGSEAPWCFTLRPGTR VGFCYQIRRCTDDVRPQDCYH GAGEQYRG\TV\SKTRKGVQCQ RWSAETPHKLQ*VPGAPGPAR ALTLGRHALMSGTRAWKWLR LSLPRFRSRSLGSRLTSEPHAQ LEENFC/RDPDGDSHGPWCYTM DPRTPFDYCALRRCADDQPPSIL DPPPQDVQFEKCGKRVDRLDQ RRSKLRVAGGHPGNSPWTVSL RNR*GTTACLPQRGAEVVSSVV MPLGAGNLSLPPEVLARRWQV *HLSQESVPCPNSPLL*\QGQHF CGGSLVKEQWILTARQCFSS\CE PPLCLGTQSHPTFPFPQAS*QVS LGATD*ESQMT*QSFSPSHMPL TGYEVWLGTLFQNPQHGEPL

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19619	49987	A	19734	727	3012	PAPTHAHSAGQRSPLNDFQVLR GTELQHLLHAVVPGPWQEDVA DAEECAGRCGPLMDCRAFHYN VSSHGQQLLPWTQHSPHTRLRR SGRCDLFQKKDYVRTCIMNNG VGYRGTMAITVGGPLPCQAWS HKFPNDHKYTPTLRNGLEENFC RNPDPGDPGGPWICYTTDPAVRF QSCGIKSCREAACVWCNGEY RGAVDRTESGRECQRWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTITDPQIERFC DLPRCGSEAQPRQEATTVSCFR GKGEGYRGTAITTTAGVPCQR WDAQIPHQHRFTPEKYACKDL RENFCRNPDGSEAPWCFTLRPG MRAAFICYQIRRCTDDVRPQDC YHGAGEQYRGTVSKTRKGVQC QRWSAETPHKPQFTTSEPDAQ LEENFCRNPDGDSHGPPWCYTM DPRTPFDYCALRRCAADDQPPSIL DPPADQVQFEKCGKRVDRLDQR CSKLRVAGGHPGNSPWTVSLR NWQGGHF\CGGSLVKEQWILT AR\QCFSS\CHMPL\TGY*GMVG ATFFQNPQHGEPSL\QRVQ*AK MLCGPSGSQ\VLLKLEERSVT N\HRVWALIILP\PEWYVVPPT KCEIAGWGET\KGTG\NDT\VLN VALLNVISN\QECNIKHRGRVRE SEM\CTEG\LLAPVGACESDYG GP\LACFT\HNCWVLEGIIPNR
19620	49988	A	19735	66	234	WCSA WHSWLPSPSGPAASYP PAACRSAPQWPDP*R*CPRTHR RRSPWRAPWHCP
19621	49989	A	19736	3	500	GRGGGGVRRCARPAPGRPPAA ARRRGDQRGGRLGR\HVPGKTF CCGICGRGFGRRETLKRHERIH TGEKPHQCPVCGKRFRESFHLS KHHVVHTRERPYKCELCGKVF GYPQSLTRHRQVHRLQLPCAL AGAAGLPSTQGTGACPGAS GTSAGPTDGLSYACSD

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19622	49990	A	19737	899	2348	GRRRGGGGRCWRGCQSGPERF SCATCGQSFKHSW/DLVTHKYV HLMLLPPSCEAVAPRGWRRSC SCPECCRV/ELSSAA/RSATAR CFRRRSPSHAQAPAGPQVPQDW RSPRARIRLPVGPVGMFAFPTSA SGKAWPSLRVSPHAFWKYHT SPPAMQPSGPLWASVPACAP*K NIPSPTIWQRLAFSGLGLPICWV ENHGPATSSQWLVSGPRSPHLL S/RAEHFPSRPLPRWVATAERQ RRPSGKRTNPPASPAPPPGA/G PEVSVPPAGALPGEALGPARDL WPCSSWT*AGLPALG/DTGGGE APAP/AAAAEPSEDTLYQCDCG/ TFFASAAALASHLEAHSGPATY GCGHCGALYAALAALAEHRRV SHGEGGEEAATAAREREPAS GEPPSGSGRGKKIFGCSECEKLF RSPRDLERHVLVHTGEKPFPC ECGKFFRHECYLKRHLLHGTE RPFPCICGKGFTLSNLSRHLK LHRGMD
19623	49991	A	19738	2	358	
19624	49992	A	19739	635	2441	LKAIKRHPFFVTIDWNVSCMPQ SPPPFKPAVGRPEDTFHFDPEFT ARTPTGVCHSGSLYNAHLFR GFSFVASSLIQEPSQQDLHKVPV HPIVQVTVFACSGFTDGYEIKE DIGVGSYSVCKRCVHKATDTE YAVKVRQAC*VSSLVFPAGTG APGIGEYGSGLVSILCAQDSP HNLLPQRKVEKPSLSILVGESRS HVDKGQEV DILEMGMEFFFFIE FLVSPLATG*CFPMARSPCMGC SLSVCTAL*GQPLQGNTPTFKY QQVTWPQAKPPTPTAVLSPETA NVTSPQEQTRCLLKDRWLYPV VRNSSTRGPSEEIEILLRYGQHP NIITLKDVSGPRATASLVMELM RGGELLDRI LRQRYFSEREASD VLCTITKTMDYLHSQGVGAMP GA AFNILYRDESGSPESIRVCDF GFAKQLRAGNLLMTPCYTAN FVAPEVSIPRLQTQACDIWSLGI LLYTMLAG*AVTSNRCHDTPPE ILARIGSGKYALSGGNWDSISD AAKVSTCPSVALDPHQRLTAM QVLKHPWVVNREYLSNPQLSR QDVHLVKVPAGAVRTEWWE WDLNRTPQAPRLEPVLSSNLAQ

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19625	49993	A	19740	144	1143	REAGRGCSAGVGGRPRRRRRK GAASRARLPFSLSIMDPSLLRER ELFKKRALSTPVVEKRSASSE\S SSSS\SKKKKTKVE\HGGSSGSK QNSDHSNGSFNLKA\LSGSSGVY KFGVLAK\IVNYMKDTGIQRGD THPLTLDEI\LDETQHLDIGLQQ KQWLMTE\ALVNNPKIEVIDGK YAFKPKYNVRDCKALLML\LD QHDQRGLGGILLEDIEEALPNS QK\AVKAL\GDQIPIC*SGPVRR KILF\FNDKSCQFSVG*RIFRKL WEECQLVDSHGTEEK\EEYLE ADRVFSSHARES\PK\KVG PYS RRKGKSPAFTTRKKPTFLRTSLT NHLAWNC
19626	49994	A	19741	677	1590	AHPHSPRRTLERQARISGAGR SSPNAANRGSAAPPSSRLASFCT AGSA\GRPA*SSPCSGPWTAVSA PRSPGPRGGGRPPSPGRRRPCCS VFSGGASPSSARVSSPSGSCSAS PPAAPAAWSLRGCGCWPG/VW EVHVNTGGDSV\AAPAAWGS AACGPNLGC GSHPRAGRRAGH RCGHPWSPRPAPRPSCCGRSPR PGPPGASGCPRPAPRPPTPASRS GRPCSWRRARAAGWPRGWWG SSAGGCRRGSGRREWCPCGTA RGSPAAGVSRWTAPRCRHRRS DASASGTPARFPGAGRKGRTL WQ

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19627	49995	A	19742	754	2179	SKMSRLEAKKPSLCKSEPLTTE RVRTTSLVLRIVTSCYGPSGR LKQLHNGFGGYVCTTSQSSALL SHLLVTHPILKILTASIQNHVSSF SDCGLFTAILCCNLIENVQRLGL TPTTVIRLNKHLLSLCISYLKSE TCGCRIPVDFSSTQILLCLVRSIL TSKPACMLTRKETEHVSALILR AFLLTIPENAEGHIILGKSLIVPL KGQRVIDSTVLPGLIEMSEVQL MRLPIKKSTALKVALFCTTSL GDTS*PGEQTVVVSYGVSLEN AVLDQLLNLGRQLISDHVDLVL CQKVIHPSLKQFLNMHP/IIAIDR IGSDSD/VEPLDLKWTGTQPIGS LGSICPNSYGSVKDVCTAKFGS KHFFHLIPNEATICSLLLCNRND TAWDELKLTCTALHVLQLTL KEPWALLGGGCTETHLAAYIR HKTHNDPESILKDDECTQTELQ LIAEAFCSALESVVGSLHDGG
19628	49996	A	19743	1	652	LMPKPGRDTTKKNFRPISLMN INAKILNKILANQIQHIKKLIN HDQVGFIQGMQGWFNHKSINV IHHIKRTNDKNHMIISIDAGKAF NKIQQCFMLKTLNKLNIHGVYL KIIRAIYD/KPPANIILNGEKLEA FPLKTGIRQG/CPLLRNIV/LEVL ARAIRQEKEIKGIQSGNEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSGYKISVQ
19629	49997	A	19744	1	834	MGDFNTPLSTLDRSTRQKVNK DIQELNSALYQVDLIDYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCKRTEIITNCLSDHSA IKLELTIKKLTQNRSTTWKLNN LLLNDYWYKQPSENKHLNAN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPIRSEIEAITNSLPT/ KKSPGPDGFTAIFYQ\MLEVLA RAIRQEKEIKGIQLVKEEVKLSL FADDMIVYLENPIVSAQNLLKLI GNFSKVSGYKI/NVQKSQAFLY TNNRQTESQIM
19630	49998	B	19745	1	1521	
19631	49999	B	19746	1	1461	

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19632	50000	A	19747	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHKKLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIISIDAEKAF DKIQHFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSGYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKL MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKSGNNRKIQ/GGIWCD RIL*R*TTCRVAKIQLS*RR/W KRLQRTLSIPVLDAV*PPMF*AS
19633	50001	A	19748	1	1818	

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19634	50002	A	19749	1	1725	MELKTKARELREECRSLRSRCD QLEERPNI LRLIGVPESDGENGT KLENTLQDIIQENFPNLAKQVN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKKGPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNRS WFFEKINKIDRPLARVIKKRE KNQIDAIKNDKEDITTNPTEIQT IREYYKHLYPNKENLEEMDTF LDTYTFPRLNQEEVESLNTSITG SEIVAIIS/NSIPTKKSPGPDGSTA EFYQ\MLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSQYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQN\RWYWYQNRDIDQWN RTEPSEITPHVYNLIF

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19635	50003	A	19750	1	1719	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNRHEHGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQLKELEKQEQ THSKAGRRQEITKIRAELEIET QKTLOKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITTDPTIEIQTIREYYKHLA NKLENLEEMDTFLDTYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL HINRAKDKNHMIISIDAEKAFD KIQQPFMLKTLNKLVLVLARA IRQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNLLKLLS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKHLFKENYKPLLK EIKEDTNKWNIPCSWVGRINI VKMAILPKVIYRFNAVPIKLPM TFFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLP

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19636	50004	A	19751	2	2133	WRRYQANGK*KNK/QKKAGV VILVSDKTDFKPTKIKRDKEGH YIMVKGSIQQEELTVLNIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLNIYRIL HPKSTEYTFISAPHRTYSKIDHI VGRKALLRKYKRTIITDCLSD HSAIKLELRKLTQNSSTTWK LNNLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDTCKA VCREKFIALNAHKRKQERSKID TLTSQLE/LEKQEQTHSKASRR KSRRNG*IPGHIHPKTKPGRI* VPE*TNNRV*N*GNN**LTNQK KFRTRRIHSQILPEHSAGSSGQG NQAGERNGYSIRKRGSIQVPV CR*HDCIFRKPHHLSPKSP*AVK QLQQLRIQNQRAKITSSPIHQ* QTNREPHE*TFIHNCFKENKIP RNPTYKGCEGPIQGELOTTAQQ NKRGHKQMEEHSMMLDRKNQ YHENGHSAQGNL*IQCHPHQAT NDFLHRIGKNYFKVHMEPKKSP HCQVNPKEQSWRHAT*LQ TILQGYSNQNSMVLVPKQTYRP MEKNRGLRNNTTHLRPSSL*QT *QKQEMGKGFPI*MVLGKLAS HM*KAETGSLPYTLKYKN*FKM D*RLKC*T*NHKNLRRKPRQYH SGHRHEQGLYV*NTKSNGNKS QN*QMGSN*TKELLHSCRNYH
19637	50005	A	19752	1	1314	

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19638	50006	A	19753	1	1998	MVKGSIQQEELTILHIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQAALIDIYRTFH PKSTEYTFFSAPHHTYSKIDHIV GSKALLNKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAPL ARLIKKKREKNQID/TIKNDKGD ITTDPTETIQTIREYYKHLYANK LENLEEMDTFLDTYTLPRLNQE EVESLNRPTGSEIVAIINSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEASII LIPKPRDRTTKENFRPISLMNI DAKILNKILANRIQQHIKKLIHH DQVGFIPGMQGWFNIRKSINVI QHINRAKDKNHMIISIDAEKAF DKIQPFMLKTLNKLVEVLAR AIRQEKDIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS KFSKVSGYKIHVLKSQAFLYTN NRQTESQIMRELPTIASKRIKY LGIQLTRDVKDLFKENYKPLLN EIKEDTNKWKNIPCSWIGRINIM RRSSAPSGCHLCPPSLYLHSPN VELKQASFSVAGFQWKLGITAP TQPRGVGDDFVTSTSPPSLDMF PRLKGAENSPHRSGRD
19639	50007	A	19754	1	3288	
19640	50008	A	19755	1	1293	
19641	50009	A	19756	264	490	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKDNYIPL/LKEI*EDTSKW KSIPCSWI
19642	50010	A	19757	1	1845	
19643	50011	A	19758	1	3144	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKKR EKNQIDVIKNDK
19644	50012	B	19759	1	1743	

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19645	50013	A	19760	1	1500	MGKKQSRKTENSKNQASPPPE ECSSSPAMEQSWMENDFHEL EEGFRSNFSELKEDVRTHSKEA KNLEKRLDEWLTGITSVEKSLN DLMEKTMARELCDKCTSFSS KFHQLEERVSVTEDQMNMKS WFFEKINKIDRLLARLIKRE KNQIEAIKNDKGDITDPTIEQT TIREYYKHLTYTNKLENLEEMDT FTGTYTLPRLNQEEIESLNKPIT GSEIEAIINSLPTKKSPGPDGFTA EFYQRYKEELL\FNIRKLINLIQL INRTQDP*PPL/VLSRIGRRVHQ YLENPIVSAQNLLKLKSNFSKV SGYKINVQKSQAFLYIKKRQTE SQIMSELPFTIASKRIKYLGIQLI RDVKDLFKENYKPLLNEIKEGT NKWKNIPCSWIGRINIVKMAILP KVIYRFNAIPIKLPMFTFFTELEKI TLKFIWNQERACIAKTILSKKN KAGGIMLPDFKLYYKATVIKT AWDQWYQNRRLDQWNRTEPSEI TPHIYNHLIF
19646	50014	A	19761	1	3192	
19647	50015	B	19762	180	190	
19648	50016	A	19763	1	3212	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ

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19649	50017	A	19764	1	2607	MTNHCFKRQFQKHEMLLKEDC EPGDSSFILGEQHWENMLCEPK QHPPQQGEGRAAGQAQNPNT DVSPGAGAKESEEKIYQHLNYT YFKQKCMSCSGFTFSSYAMHW VHQAPGKGLEWVSAIGAGGGT YYADSVKGRFTISRDNKNSLY LQMNSLRAEDMAVYYCARDTI DAYGDEKPSTIVTRIRVLRKLR DTCHMGADRTFLSPAQHPPV CHVETHLGMQVANSSEDELV WSKWDVDVKFILCCAKYHREQ LQESALDLKSLHCPSASPALFL ATPSQPVLTTGPGSASSQGGAE MGAHFLVQLVQSGAETRESFD PALPEMETQRTDEQCRAVHPGP QKERHGNMSPLLMKGSSSPVP SGPGEEPSHREPVSFICGRCLLT LLLGDCWGEAWTQGDVLQ PSDRASFLAMGVNTTVQQVGD LSGYFPNSVGKACKREFHTLT PLAHTSSTTHETFPGAQCEVQL VESGGGLVQPGGSLRLSCPDSG FTFSNHYMSWVRQAPGKGLEW ISYISGDSGYTNYADSVKGRFTI SRDNANNSPYLQMNSLRAEDT AVYYCVKHTARGKLEKQEQT SKASRRQEITKIRAEKETEQT TLQKINESRSWFEKIYKIDRPL ARLIKKKREKNQIDAINGKGD ITTDPTETITTLREYYKHLN KLENLEGMDKFLDAYTLPRLN
19650	50018	A	19765	1	1251	
19651	50019	A	19766	1099	4113	
19652	50020	A	19767	1	2628	
19653	50021	B	19768	1	2970	
19654	50022	B	19769	1	4142	
19655	50023	A	19770	1	4091	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNLQDIIQENF PNLARQAKVQIQEIQRMPPQYS LTRATPRHIIVRFTKVE

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19656	50024	A	19771	156	450	LQVEIYKTVKMHC\IWHKQMVSYFFYQKKNELSNFEEVFLKTA SGMFFSTVGCHPTRCGEF EKNN PDLYLKELLNLAENNKGVV\A IGECGLDFDRLQ
19657	50025	A	19772	173	1009	LHGGNLQDSKD\ALHLAQ\TNG MFFSTVG\IHPTRCG*/YFEKNNP DLYLKGVAKIFA/EKTLKGK\W QLGEC\GLDFD\RLQFCPKDTQL KYFEKQFE\SEQTKLPMFLHC RNSHGWNFLDIMKRN\RDRCVG GVVHSFDGTKEAAS\SLIDL\LY IGFNG\CASPENLEANLGRFWK S\NPEKLMIEA\DA\WCGVKST HA\GSKYIRTA\FPS\KKKWESGH CLKDRNEPCHIIQ\ILEIMSAVRD EDPLELANTLYNN\TIKVFFSWN IIGICLPLSIMYVKFHSKTS
19658	50026	A	19773	16	1558	QEH\LRASPRLLQLLP\LP PPPP PPAFGGSLSSLGSRMSRQV\ VRS SKFRHVFGQPAKADQ\CYEDVR VSQTT\WDSGFWC/SVNP*VLW ALICEASGGGAFLV\PLGKIWT LWDKNAPTGC\GSHS/APVLDIA WCPHNDNVIA\SGSED\CTVMV WEIPDGGLMLPLREP\VV\TLEG HTKRVG\IVAWHTTAQNVLLSA GCDNVIMVWDVGP\GAAMLDT GPRGA/HPDANYRGDWE\PDGG LICTSCRDKRVRIIEPRKGT\VA EKDRPHEGTRPVRAVFVSEGKI LTTGFSRMSERQVALWDTKHL EESPV/SLRKLHTRNGVPV\AFFG P\DTNIVYLRGK\GSGPIRVFEIT SE\APFLHYL\SMFS\SKESQRG\ MGYM\PKRGRKV\NK\CEIAGFY KLHDGR/CVSPMPKPVPRKSDL FQEDLGPTPPRGPD\ALTA\EE WLGGRDVG\PLFISLKDGYV\PP KSREL\RVNRGLDP\GRRR\AAP EASGTPSSDAVSRLEEEMRK\LQ ATVQELQKRLDRLEETVQAKL
19659	50027	A	19774	229	475	

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19660	50028	A	19775	225	965	EWAWRSQRLRSEHSRADPTRSSC RSCGAKMSGREENPASKPTPVQ DVQGDGRWMSLHHRFVADSK\ DKSGSKKKKNPPPEVVFIGDSL VQLMHQCEIWRELFSPHLALN FGIGGDGTQHVLRLENGELE HIRP\KIVVVWVG/TPNNHGHTA EQGLLPRGQHPNPLREKNRQV NELGTGGTWLGHPRAHFLDAD PGFVHSDGTISHHDMYDYLHLS RLGYTPVCRALHSLLLRLLAQD QGQGAPLLEPAP
19661	50029	B	19776	691	1077	
19662	50030	A	19777	481	1308	PSVAFL*PSLHRYGHTGTAGPG WPCAAGS*AA/SSSRRLPSVLQ ASSNSSHRRCNSTPSGSAGQRR VRRAP*MASTTPGGTESGPKA RNAFRMRSTSAFCRGQ*QRPVP SSSSSRSSSRACA\AGETASGDP RAQRQLRS*DEESSPSLDFRQA /PWPTAPCVKVSYSRRMFSGM SPWRSSDNKRNSFLRKTGSGN FSADLDTPPMPEVCLLPSLGY LVPPVAEVHMPVPAPILPSAGIR RKIQKAASAKQLPLFQMDDSF QHRVQGDTKK
19663	50031	C	19778	41	318	
19664	50032	A	19779	970	1193	INNHIRDSCWTCHCSC/QPPPPP LLPQPPP*LSAPRVIERKE*DRL/ CPGEQTSSPTSPRTQSAAT QLSLPPP
19665	50033	A	19780	1	494	MDGRVMAAGGRQAPGQKKAG TSEAPPSSQEWPEAWYGCLQQ KLRAVYLVQSQCPTGPVLAPG AACPAAAASTPGCAQW/CGPR ACSPTQSSQLCAWFAFSSRCPD FCPNPPRPL*DPPSWPTDPADRC SPELTIRDSCWTCHCSCRRRHR RPCCRSRRPDSPRHG
19666	50034	C	19781	120	392	
19667	50035	A	19782	174	375	

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19668	50036	A	19783	33	1154	QFALCAGWWLCGRGGGRTPAT MSGFSTEERAVPFSLEYRVFLK NEKGQYISPFHDIPIYADKDVFH M\VVVEVPRWSNAKMEIATKDP LNPIKQDVKKGKLRVVA\NLFP\ YKGYIW\NYG\AFPQTW\EDPG\ HNDKTLLGCCGLTMDP\IDVC* NWEKGVCARGEIIG\VKVLG\IL AM\NDGGGTDWKVIIN\DDP GCQPINNDI\NDVKRLK\PGYL* KLPVDWFR\RYKVPDGPENEF AFNAEFKDK\DFAM\DIKSTPWT LGKALVT*ENRMGKGISCMT NFVLRAPFKVCILDAAQSPWD ALPHTPCGICPCHSTQQTVDKG VPITQKNLMRFPLEYQADIA YIR VPSWMVLEVKVVAFSKAFKFV EHPNLK
19669	50037	A	19784	1	612	VTQEDDIIEHKPRTPRSPPLL APSPACQAFGEHSPGHPAIST GAGPRPSASFHSHPLSGLHREPP LNWSVCPGLVWSPKPALETH PFVQQFPHQATLEWGVFHRDV GRRWGRRLGNLQIGSEVARRR RVGGGGLQCRRLGVGASPGAD W**SG*EEACGGRWAA/GADG WGLGRPRELIGCRGWRRSLAA APGPQRPGFVSVSTPRCPRSG METQTPALRVQDDLFQS
19670	50038	A	19785	1	951	MEEGISSQIGRENECQKKCQ TLIKPSDLVRTHSYHENSMTGETI LVIQLPPPGTAFDMWELQFKLI TQTFSHHNQLAQKTRREKRAR QEA\ERREKAERAARLAKEAKS ETSGPQIKELT\DEEAERLQLEID QKKDAENHEA\QLKNGSLDSP GKQDTEDEEEDEKDKGKLP NLGNGEDLPNYRWTQTLSELD LAVPFCVNFRLKGKDMVVDIQ RRHLRVGLKGQPAINDGELYNE VKVEESSWLIEDGKVVTVHLE KRGPADAHSRALSVLQASRL GVHCVPGTVPNAEIQVDFVIY FWQSVIPQASPISE

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19671	50039	A	19786	87	1191	SAELRDVDRSAARLGGEQEEER FDGMLLAMAQ\QHEGGVQELV NTFFSFLRRKTDFFIGGEEGTAE KLITQTF\SHHNQL\AQKT\RREK ESPRRRAE\RREKAERAARLAK EAKSETSGPQIKELTDEKA\ERL QLEIDQKKDAENHEAQLKNGS LDSPGKQDTEEDEEEDEKDKG KLKPNLGNRADLAQ*RLNPDPC RELDLAVPF\CVNFRKKGKDMV VDIQRGTPR\VGLKGPDSLSM GELYNEVKVEES\SWLIEDG\KV VTVHLEK\NKMWW SRLVS DPEINHPRKINPENSKA\SDLDS *DFASMVEKDDGMTQRTESPM GLPNFQTNRRKQEILK\KFM\DQ HP\EMGFFPKAKFPTNPCFFPP
19672	50040	A	19787	3	403	
19673	50041	A	19788	281	1952	DPVPGCRRLVAMAPTIQTQAQ REDGHRPNSHRTLPERSGVVCR VKYCNSLPDIPDPKFITYPFDQ NRFVQYKATSLEKQHKHDLT EPDLG\VTIDLINPDTYRIDPNVL LDPADKLLLEEEIQAPTSSKRSQ QHA\KVVVPW\MRKTEYISTEFN RYCIFHEK\PEVKKWGSVKQQF TEEEIYKDRDSQITAIEKTFEDA QKSVEGLGWGEARISQHYSKP RVTPVEVMPVFPDFKMWINPC AQVIFDSDPAPKDTSGAAALEM MS\QA\MIRGMMDEEGN\QFVA YFLPVEETLKKRKRQDEEEMD YAPDDVYDYKIAREYNWNVK NKASKGYEENYFFIFREGDGVY YNELETR\VRLSKRRAKA\GVQ SGTNALLVVKHRDMNEKELEA QETRKAQLENHEPEEEEEEME TEEKEAGGSDEEQEKGSSSEKE GSEDEHSGSESEREEDRHEAS DKSGSG\QDDSSDY*ARAARDK EEIFGSDADSEDDADSDDEDRG QAQGGSDNDSDSGRN\GGGQR TRSHRSASPFPSGSEHSAQENG \SEAAASDSSEADSDSD
19674	50042	A	19789	1	885	
19675	50043	C	19790	164	361	
19676	50044	C	19791	22	156	

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19677	50045	A	19792	1	1344	PGRTTRSMAEDVFLSAPIPRGC ADGRDADPTEEHMAQTERNDE EQFECQELL*CHVQVGAPEEEE EEEEDAVLVAEAEVAAGWM LNFLCLSLCRAFREGREDFRRT RNSAEAIHGLCSLTACQLRTIYI CQFLTRIAAGKTLDAQFENDER ITPLESALMIWGSIEKEHDKLHE EIQNLIKIQAIIVCMENGNFKG AEEVFERIFGDPNS\HMPFKSKL LMIISQKDTFHSFF\QHFSYNHM MEKISYV\NYVLSEKSSTFLM KAAAKVVESKRTRTITSQDKPS GNDVEMETEANLGYYKKK*LT NSLR*LNPQRVQYPY*GSHKNL FYLKLQHGTTQQDLNKKERRV GTPQSTKKKKESRRATESRIPVS KSQPVTPKHKRKRQAWLWE EDKNLRSGVRKYGEGNWSKIL LHYKFNNRTSVMLKDRWRTM KKLKLISDSED
19678	50046	A	19793	1	1444	IPGSTISCLKGQYPSEPFNMAED VSSAAPSRRCADGRDP\DPTEE QMAETERNDEEQFEC\QELLE QVQVGAPEEEEEEEEEDAGLV AEAEVAAGWMLDFLCLSLCR AFRDGRSEDFRRTNSAKAIY GLSMLTACPLRTIYICQFLTRIA AGKTP*MHRFENDEARITPLGISP *MIWGSIEKEHDKLHEEIQNLIK IQAIIVCMENGNFKEAEEVFER IFGDPNSHMPFKSKLLMIISQKD TFHSFFQHFSYNHMMG\KIKSY VNYVLSEKSSTFLM\KAAAKVV ESKRTRTITSQDKPSGNDVEME TEANLDTRKRSHKNLFLSKLQH GTQQDLNKKERRVGTQSTK/ RRKKEGRRATESRIPVSKSQPV TPENDRARK\QAWLWGRKDK ILRS\GVREFG\EGNWS*ILLHY KF\NNR\TSVM\LKARWRTMEG NLKLDLQDSEDWIVFVKSFDG KGQFKYFDHCILFETCVIDVI
19679	50047	A	19794	1	1020	
19680	50048	A	19795	411	769	SHLGFPGTWTRLWPSRMSPCPP QQSRNRVIQLSTSEL/APALGN WARLPQVTEQ*FRGLRKGSR MPGSSPATWTKGCLLA*Q*CL CPQLGWSRVAP*CRLGALFLAC SLLLAAPLRCF

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19681	50049	A	19796	171	325	ETVAVSSAGARASSIMRIMVSS RPSETSLESVFPDSAP/PGL*PPP CLSFGL
19682	50050	A	19797	335	1536	GCSPCPPQ\QS\RNRVIQLSTSEL GEMELTW\Q\EIMSITEACRVLN APSEPSFEAPKPQLPYL/GPPPPT TY\CPC\SIHPDSGFPI\PPPYEL PAASTSHVPDPYPYSYGNMAIPV SK\PLSLSGLLSEPLQDPLALLD IGLPAGPPKPQEDPESDGLSLN YSDAESLELEGTEAGRRLSEL RRCYPV\EYPYSLMPNSLAHSN YTL\AAAETPLALEPSSGP\VRA KPTARGE/AQGSRDERRAL\AM KISF\PTDKIVNFPVDDFNELLA RYPLTESQLALVRDIRRRGKNK VAAQNCRRKLET\IVHLERKL ERLTNE\RERL\LR\RGASR\T LKVMRQQ\LQEL\YREHFPSHLR E*NPGQTAYSP*KK*RACKQAC PNGDPSFPCGPRGT\KMEAHRL
19683	50051	A	19798	1	408	LNLMRWEAVQARGGAFRIPRV DPGPTPIPHNSSSRFDCNSVSTA PRVLVSGICAAGSFVLVAFSHS VGTS LC/GYFLLLTSP EAQDPGG EEEEESAARQPLIRTEAPESKPG SSSSLSLRERWTVFKGLLWYIV PLV
19684	50052	A	19799	1	759	
19685	50053	A	19800	1	1815	
19686	50054	A	19801	1	942	MGGCAGSRRRFS DSEGEETVPE PRLPLLDHQGAHWKNAVGF LLGLC NNF SYVVMLSAAHDILS HKRTSGNQSHVDPGPTPIPHNS SSRFDCNSVSTAPRVLVSGICA AGSFVLVAFSHSVGTS LC/GYFL LLTSPEAQDPGGEEEEESAARQ PLIRTEAPESKPGSSSSLSLRER WTVFKGLLWYIVPLVVVYFAE YFINQGLVSEGCLFRPFPSALN VCEVNLVKVSQHQQGWVAVV TQGKKHPISCRRLNVDGMNIIS NDGSNKLNR SRKARVSYKVQR TINASLNAATSTRAVSSNP NFV

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19687	50055	A	19802	82	1620	SLSPVADPHPSRGSPWLTYDP GPSGDLNLMRWIGCAGSRRRFS DSEG\EETVPEPRLPLLDHEGAH WKNAEGFWLLGLCNNSFYVV MLSAHDILSHKRTSG\NQSHV\ DPGPNGDSPTTAYSRFDCNSVF\ TGAVLL\ADILPTLVIKLL\APLG L\HLLPYRSGPRVLVSG\ICAGG KFRPGFAFSHVG\TSLCGCWSF ASISSGLG\EVTFLSLTAFYPRA VISWWSSGTGGAGLLGALSYL GLTQAGLSPQQTLLSMLGIPAL LLASYFLLLTSPEAQ\DPERGEE AK\SQAGQPFI RTEGPE\GKPGSS SSL\LRERWTVVKGLLWVPLF PWFEVTFPKYFITQGLFELP/LFF WTTSLSHAQQYRWYQMLYQA GVFASRSSLRS\CSIGFTWALAL LQCL\NL\VFLLADVWFGFLPSI YLVF\LI\LYEGAPWGSASLREK PF\HNIRPWRPSDEHREVCKWR PPCHL*HTGGFILSGASLALPLH DFLLPSSPDTRDPQDAGHIHLW ARGTGYYQ
19688	50056	C	19803	270	542	
19689	50057	A	19804	271	449	CLELRNLFYGACSWEVSISSDS EKPGIFNASPASAVHC**GFARP SSWRVLGAICTFHHSVYAKTA KRKAST*RHFHH
19690	50058	A	19805	21	79	
19691	50059	A	19806	1242	1560	WATRSCSSMEMPPWCPCGC AGRWRGGASRGPREAAAGH* KPRTSNQGEQPTRRSPYAACA RRAFAGPWASLPSPLSAGGL AWGAPCVAHPTRPSPYLLV
19692	50060	B	19807	148	2949	
19693	50061	A	19808	1335	2173	KQAHRPREEKRREEKRKEG\PS VPETLKKKQRNFTELKIKRL\RK KFAQQML\ARKAR\RKLIYEKAK HYPKE\YRKMYRT*ISNGRGWA RK\AGQLYLVLKNPKFAV\VIRN QKVS MGVS PKLRKVVSFLRP SSKSSNETFVKALKQRPSD*TM P*GLVRGPI*LPWGYPPQS*SPV NEP*SYK\RGY\AKIQ*EAELPLT DNALIASISWVNSAFICM\DDLI HEIYTV\GKRFK\EANNFLWPLQ IVLLPRGG\MKKKTTTFVEGGD AGTQRSDQINRLIRRMN
19694	50062	A	19809	3	186	
19695	50063	A	19810	272	428	

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19696	50064	A	19811	50	2237	RSLKAFICSILSMDKQSRDPPVK MQGSITTPGSIALAQAQAQAV PAKAPLAGQVSTMVTTSTTTTV AKTVTVTRPTGVSFKKDVPPI NTTNIDTLLVATDQTERIVEPPE NIQEKIAFIFNNLSQSNMTQKEE LVNNTLVQSYRQQIGNVVNQ ANLQLFWNMYNSRRDLINRP GTVPNAKTLRCPVMLVVGDNA PAEDGVVECNSKLDPTTTTFLK MADSGGLPQVTQPGKLTEAFK YFLQGMGYMPSASMTLRARSR TASLTSASSVDGSRPQACTHSE SSEGLGQLNLKFEIEVLCKNLA LDINELKPGNLLKDKDRLKNLD EQLSAPKKDVKQPEELPPITTTT TSTTPATNSTCTATVPPQPQYS YHDINVYSLAGLVPHITLNPTA HPQLKQCVRQAIERAVQELVHP VVDRSIKIAMTTCEQIVRKDFA LDSEESRMRIAHHMMRNLT GMAMITC/RE/PLLSISTNLKN SFASALRTASPLQREMMDQAA AQI*AQDNCFL/CKVGGVDPK QLAVYEEFARNVPGFLPTNDLS QPTGFLAQPMKQAWATDDVA QIYDKCITELEQHLHAIPPTLAM NPQAQALRSLEVVVLSRNSRD AIAALGLLQKSMENGLNYMAV AFAMQLVKILLVDERSVAHVT EADLFHTIETLMRINAHSRGNA PEGMDITTRQKVNNKKREGFND
19697	50065	A	19812	1	3777	KNPEFNKMVLNETYRNIKVLLT SDKAAANFSDRSLLKNLGHWL GMITLAKNKPILHTDLVDKSL LEAYVKGQQLLYVVPFVAKV LESSIRSVVFRPPNPWTMAIMN VLAELHQEHLKLNKFEIEVL CKNLALDINELKPGNLLKDKDR LKNLDEQLSAPKKDVKQPEELP PITTTTTSTTPATNTTCTATVPP QPQYSYHDINVYSLAGLAPHIT LNPTIPLFQAHPQLKQCVRQAIE RAVQELVHPVDR

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19698	50066	A	19813	160	1002	KRLGSSAISMSKYKLIMLR\HGE GAWNKENRFCWVDQ\KLNSE GMEEARNCGKQLKALNFEFDL VFTSVLNRAIPTARL\ILAEELGQ EWVPVESSWRLNERH\YGAL\I GLNREQ\MA\LNHGE\EQVRL\W RRSYNVTP\PPIEE\SHPY\YQEIY NRPGGIK\CDVP\LDQLPRSES\ LKDVL\ERFLPYW\NERIAPEV\ RG\KTILISAHGK*AVGALLKHL GRYPSGLKTSINIYSFLLGVPILL \ELD\ENLRAVGPH\QFLGDQEA QAAIKKVEDQKGKVKQAKK
19699	50067	A	19814	200	1155	NHYISLFQYSQDTCKLLFRNQ MTISQIFLCIFSGVLMVFFLIITTSQ VSFTNFFTGLKIFFLVIKFWVSE FLHHQTGTYYIHIYLLFISMKSFF LYASPLTFMILSHFQASLSSIFGF CSSLFRQSSFFSNILFF*VYTQSY REFRTYYETIPCQFDITFVIFKM CCILILC\FDLLNRRNGSIIIQKFG IYGLVKIFIF*IFTNIHLLQ*FFQV VFILQFFNIVKKSFLQPAGSKR* KFFSKVRFFSFL*F*KWEARSSA SKLFLLIY**VYR\IFSLLVFPV V/CPVGWYLLFFFFLYLFFLFLN LSKNSFYSQWYWFKR
19700	50068	A	19815	1	168	RPWLHLHGRPGWPAPETPPPD PEQAPPPGRAGPAGEAEGLS CV/P*APSRRPRTM
19701	50069	A	19816	1	531	PVGQGARQDDSSSSASPSVRAT SQGGHLMSDLFNKLVMRRKGI SGKGPGAGEGPGGAFVRVSDSI PPLPPQPQAEEDEDDWES*G AP*HLPPDPDLGRCSMDTAR TSCSDLLPWEGVTEPAVCGDQL QGAEGWLEATQLGRGLVCLYF MGGRHPACATVFLRGFQRKR HTNQ
19702	50070	B	19817	61	969	
19703	50071	A	19818	60	436	RGSREYLHTGCPRSSGCRSQCP GPPTQSPKVRPPQRGAPRLRGG DFPPSRLLDTVSFPPA*AAFP CPVPHLPAPVQGAPREVDPSPG GWATLLESIRRAGGIGKAKLRS MKERKLEKKKQKEQ
19704	50072	B	19819	575	1666	

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19705	50073	A	19820	515	1110	MFHPTCLTCPAFANRPHVHCRP GAPAFAPSAPGTIPELPTFHTEV SPSHSRQTLQDGVTTAPPPPPP PPPPPPAPEVLGQLQPPLPTLQP RPLLGQGAREGRTAAAA/PSPS/ GPGSSQSGRPLRWLGHSARV HPPSWGHRQGLAAQHERKRV EKKKQKEQEQVRATSQGGHLM SDLFNKLVMRKGHLWEKDPG AW
19706	50074	A	19821	1	191	MQK*ITAWAPAPMKIKIISPER KYSVWIGGSIWPQLST/FQQMW ISKQEYDESGPSIVHRKCF
19707	50075	C	19822	791	970	
19708	50076	A	19823	13	1260	INPPPLSRRCQLSHSVLPPLRRR VSLPVAMEEEIAALVIDNGSGM CKAGFAGDDAPRAVFPISVGRP RHQGVMMVG\MGQK\DSYVGDE AQSKRGILTLKYPIEHGIVTNW DDMEKIWHHTFYNELRVAPEE HPVLLTEAPLNPKANREKMTQ\ IMFETFNTPAMY\VAIQAVLSL* \ASGRTTGIVMDSG\DGVTHTV\ PILRGLPHCSTPFLRLGPGGLARD LTDYLMKILTNERGYSFTTHGPS GKTFRNIKGEACATSPLDFEQ\E MGTAASSSSLEKSYELPDGQVI TIGNERFRCPEALFQPSFLGMES CGIHETTFNSIMKCDVDIRKDL YANT\ALSGGTTMDPGVIADRM QK\E\NTALAAPAP*KIR\IAPPER K\YSVWIGGSILASLSTFQQMWI SKQEYDESGPSI\VHRKCF
19709	50077	A	19824	93	534	

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19710	50078	A	19825	1	1462	WEVSAQPSPAVPRRAPLRGLSA TRSAAGTMREIVHIQ\AGQCGN QIGAKFWVISDEH\GIDPTGSY HGDSDLQLERINVYYNEAAGN KYVPRAILVDLEPGS\MDSVRS GPFQIFRPDNFVFGQSGAGNN WAKGHYTEGAELVDSVL\DVV RKESESCDCLQG\FQLTHSLGG RHGVPGWGTLLHQQSGEEYP DRIHETPFVSVH/VSPKVFKTRL LEPLQRHTSRFHHLVENT\VKP YSIDNEALY\YICLPTAES*PTPT YG\ALNPPGCSATMSGVTT\CLR FP/GGQLNADLRKLA\VNMVFP PRLHFFMPGFAPLTSRGSQQYR ALTVPE\LTQQMFDSKKMIA/AP CDPPPTGR\YLTVA AIFRGRMFH GRRWDEADGGSNVAGTRNRQVI SWEWVP\NNVKTAVC\DIPPPG AWKMS\ATFIGNQPRPSRRLFK RIYE\QFYTAMFPAQGPSLHWLH GRRAMDGDGSSPEAREQHERP WCPEYQQYPGTPRPT
19711	50079	A	19826	2	180	
19712	50080	A	19827	28	185	
19713	50081	A	19828	179	307	
19714	50082	A	19829	438	663	
19715	50083	C	19830	99	335	
19716	50084	A	19831	1	320	AYADQL*LRRHKSSSSSSSSSS SSSSSSSSPLAP*LGSGDLP*EIN PPSSCSLLREKDPPTTSGPQ\PTS PRNISPISNPDPTGNRTVQLTWQ PLPQPLELWPKAL
19717	50085	A	19832	578	753	LCTPTPFPLFWKTVRKYSSNNQ KGE*NTVLMEVCPRSPRTN*KD SQ*PFELLTKMTSQGSDISGDLP WEINPLSSCSLLHEKDPPTTSGP QTDQPKKHLTNFKSETKETHFI RGPKTPVLVTDWEGRLPLVFN HSRDASLIHPRFRGVRPRRDAC LGPSPLAASPAFLEEGQVPQPLL SMSLTPSLLFWRRGKKPSTPSSP LAASPAFLEEGQVPQPHISVPRS LISTPQPLITLHPDPFPAFLEDSK EVLKQQPKGRIKHCADGGMSK EPKNQLKGLPVTKAGNIHGIND
19718	50086	A	19833	95	259	SHRPSQ*VLQLIKVAHPELFPVP SGFVVSLTSGMKLQTLTTREW MRILLIFWNG
19719	50087	A	19834	1	939	
19720	50088	A	19835	391	792	

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19721	50089	A	19836	1	1317	
19722	50090	B	19837	1	1665	
19723	50091	A	19838	573	902	YSCLLILIRKITQNSVEVLGRRK FLGGGMEREWVMFL/EGCFKR D*GQRGNQFQIRVTAPNFMCV CVKRPPNRLCVSNKAVYFTWV QVGFQIFEKPEPIEEICKVCWRP
19724	50092	A	19839	1802	2229	GGGAEAEELGPSSAWRGAAC PCPRKAGLVAKAEGPRQASLR GLTPLKRECIIREASLQ*LNTK/V KAAFPVRDRRWSFGFTDKTCLF CLGSEIGEVLGLVGLRT*GRR WFLMEQRAGGQGIDLPREVPR SKSGHQISLVSI
19725	50093	A	19840	19	4153	PPDPLPGLPCPPGGPPLPAFGGG WGGARGSWHWSSRACSRRRR LVHAPRAPLLPRAAAEKAKRP AGARQMGLKARRAAGAAGGG GDGGGGGGGAANPAGGDAAA AGDEERKVGLAPGDVEQVTLA LGAGADKDGTLLEGGGRDEG QRRTPQGIGLLAKTPLSRPVKR NNAKYRRIQTLIYDALERPRGW ALLYH\ALVFLIVLG\CLILAVL\A TTFKEYETVSGDWLLLLLETFAIF IFGAEFALRIWAAGCCCR
19726	50094	A	19841	355	640	ILDYVFSSSHLFQSKLLGRRGR ASHGTLK*AGPG\GGGEVIKGL* GGGAEAEELGPSSAWQGAAC SFPRKAGLAAKGEGPRQASLH GLTPLKCG
19727	50095	C	19842	55	189	
19728	50096	B	19843	96	401	
19729	50097	C	19844	558	725	
19730	50098	C	19845	448	540	
19731	50099	C	19846	140	334	
19732	50100	A	19847	362	710	ILGGRKLRLEKSLGCAAQGGG AL/YEEWLELRNGCLCCS\VKD NGL*/RAIENLMQKKGKFDYIL LETTGFADPGAVASMFVWDAE LGSDIYLDGIITIVDSKYGLKHL AEEKPDGLIQ
19733	50101	A	19848	181	543	
19734	50102	A	19849	1	594	
19735	50103	B	19850	29	746	
19736	50104	A	19851	45	362	EEQHSMLGSGFKAERLRVNLRL LVINRLKLE/KKDERARIRVEH IREDYLV EAMEILELYCDLLA RFGLIQSMKELDSGLAESVSTLI WAAPRLQSEVAELKIVA

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19737	50105	A	19852	344	951	EEQHSM LGSGFKA EHLRVNLR LVINRLELL/EGKKKKKT ELAQ KAGKEIADYLAAGKDERARIR VEHIREDYFVEAMEILELYCDL LLARFGLIQSMKELDSGLAESV STLILAASRLQSEVEGFNIIYSS* IPSN SPIILNL*MAIKGCKNY/RL LHQIVVPGPSQKPLQNFLDLR LPWTTLPWIFGLEGKIPLWERIK
19738	50106	A	19853	1	1077	
19739	50107	A	19854	1	1140	
19740	50108	A	19855	1	3426	
19741	50109	A	19856	1	942	
19742	50110	A	19857	342	1499	EEQHSM LGSGFKAERLRVNLR LVINRLKLEKKKT ELAQKARK EIADYLAAGKDERARIRVEHIIR EDYLVEAMEILELYCDL/LCLA RLG/LYSSY*KELDSGLAESVST LIW AAPRLQSEVA\ELKIVADQ LCAKYSKEYGKLCRTNQIGTV NDRLMHK\LSVGTPP\QILVERY LIEIAKNYNVPYEPDSVVM AE APPGVETDLIDGGFPDDVKKR\ GPWKKEGSGGFTAPVGGPDGT VPM PMPMPMPMP SANTPFSYP LPKGPSDFNGLPMGT YQAFPNI HPPQIPATSPIRIESVRWTFNCLI KEYS/IFLAQICLGP GPKARRPF AKFP\SRPADNF*QLLFLPELPSV PDTLPTASAGASTFRHLKDIDF DDL SRRFEGAGKRKT
19743	50111	A	19858	2	255	GCISTSR LGSMPTTTLRL LQKIS *RSYSSAPASCLISIVKSASD*RA RAPTRGSYGGPLLRLSSSSSLAS GRCVTSRASLRPRS
19744	50112	A	19859	1	276	
19745	50113	A	19860	3	151	GAVPAVRLGGPLHVHLP HAR*P SNLSALQFYQDGLRWWQTVS *RAASRSPTRPVTIKSVCTPILP GWLSSLVANCIVKSASD
19746	50114	A	19861	1	386	DCVIATDAEVLGAPVKGKRRG RGPKGDKASDPEAGVARGIDF HHVSAVLNFDLPPTPEAYIHRA GR**CDGPGICMVGTLRDLGCA GQSLRVGDASCTVFPCRTARAN NPGIVLTFVLPTEQFHLCKI
19747	50115	B	19862	26	186	

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19748	50116	A	19863	2	1839	ARGQVR AALLSSAMEDSEAL GFEHMG LDPRL LQAVTD LGWS RPTLIQE KAIP LALE GKDL LAR ARTGSGK TAAYAIPMLQ LLLHR K\RQVRW*NRQ*EGLVLVPTKE L\ARQAQS\LIQQLATYCCSGMS ELANVSAC*KTQSLRELCLMEK PD\V VVGTPS\RILSHFAARQPET FVTPWSFLVVERS L TFFFP GFGE EELKKSSSGKAESLAPDFNKAF LMSATFNEDVQA\LKELILHNP\ VTLKLQESQLPGARPVTA VSGG L*DLREDKFLLLYALLKLFIDSG ASLW LFCSTL*EREFTGLR LFL WEQFQ/LSPTCVLNGELPLRSR VPHHL/QQFNQGFYGLCHRQL/ NAEVLGAPVQGGASGPRAQRG Q/VPLDPEAGVARGIDFHHCVCA\ VLNF*SFPTPEA\YIHRAGR**C DGP GICMDSTR*QPRA*S*PFVL PTEQFH/CRQD*GASQWREQGA P/SLLPYKFGMEIEGFRYR*GV HPQDAMRSVTKQAIREARL\SLI KEELLHSEK LK\TYFGRQPLGD LQA\LRHGPLYLCTPQLVEAPTW GHVPDLP GSSCF SVALGAPFTK KREEACLPS CRKAQESKVP RTP LRSFKHKGKKFRPDSQALREVV
19749	50117	A	19864	3	378	TTTKFAGRRPKVTVLGQP/KAA PSVTLFPPSSEELQANKATLVCL ISDFYPGAVTVAWKRGSSPVKA GVETTTPSKQSNNKYAASSYLS LTPEQWKSHKSYSCQVTHEGST VEKTVAPTEYLLRVY
19750	50118	A	19865	1	546	MAWTPLLLLLSHCTGSLSQPV LTQPPSSSASPGESARLTCTLPS DINVGSYNIYWYQQKPGSPPRY LLYYYSDSDKGQSGVPSRFSG SKDASANTGILLISGLQSEDEAD YY/CGCFTVFWSTF*VLVPEHQ QSWLPLWTPGVVSLV/CLVPS FVPPPLTKVPSSLSSPVKESAILA VDIH

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19751	50119	A	19866	2	838	RVRVSTMAWTPLLLLLSHCT GSLSQPVLTQPPSSSASPGESAR LTCTLPSDINVGIYNIYWYQQK SGSPPRYLLYYSDSYKGLGSG \VPSRFGSKDASANTGILLISGL QSDDEG\DYYCATWDSSLTGQ VFGGGD/TKLTRP*GQPKACPP GVTLPVNPSP/SRSFQAQQGPQL VMSS*SDFLTPGSPLNSCPWK\A DSQPPFKAG\VETHTTPPKQSN QVRGPAGYLSLTA\EQWEVPT SYSCQ\VTH*RGAPWEKTVGPY RMFHRFLNPSPPHGMT
19752	50120	A	19867	1338	1854	NSETREHNHRVVPQRETSGGTD GWKSKQPE*L*RRQLVQSWAK S*NQPKLPSSPH*ELPWVTPSA RNFRSGPYSPPPPPQPLPSSHL SSLHFYSPFVSYSFDLYSSSYH SYLMDEDTVPEKELRSSQKVIG HSFTGFQPTLSANPYDRGDGKII ELLPRKAQTFPVVRT
19753	50121	A	19868	1	500	GSTYSELLSGTACVVTAHLAQ QRRHLLGGLASRHDAPEQLA VGAPVQPRPLPAPAGAALVG HAHVVEGGP/PGSGGPGEGAI ARGPGAAAAGAGPGAPRRRR LQASAGPCSRSSPEGRSAPRA APPAPSAGPHVAFPSRPPAAGS PPRSRPPPPGIPTGGR
19754	50122	A	19869	20	507	TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPRRRPSRRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSPGPASG*CSVYFPI LPLALFPLPVHHGGVHVCGRG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR YTRPPSRRC

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19755	50123	A	19870	236	1191	GSGRIPGRAGLEGPGPAFQKSR LSPASGSAGPRGASPSAVPPGR/ RPGVPAFPASNPPVAAVPGPW VTCWGKGLQGEGKAPRAPH GTPQR\SPGSARPTGLSPPA*PSR *RARRPSPETP\PGHGRAGPPPP DGA VQRQGGPCRAPSASRPPGS ARARRRRWPAARPPGCPARPG PRGGRPRRRSPSPAAGRARRRA PRTPAARSR*VCPRGRRSAAPP RGHGTAPCAAAAPPPRGLGRP ADAPEQ/PRCRCARPAPPLPAPA GAQALVGHAHLLKAALGHDF TFLWATIHEVIPKMRWGQSQC QRGGPSSHTPDLA
19756	50124	A	19871	24	286	LRGQKVLLLGDRARLSQKKKE RKREEREREREHGRNGR/RRNG QGRGPEGQR*NERTGQERTGH GREGRKEGRKEGRKEGRNERE
19757	50125	A	19872	43	373	PRFTDENLEMCTVIQSVQCYHR SWH/HSSPPEPAPHHQSPPAHSP VLCWFRRLGGGEDWAPSSGGR AVWRSHCSFCSSSSCCSCSQ SGKRTAAAPWPTTSPAPSRSCC A
19758	50126	A	19873	3387	4083	AGRSALPVDVAVQVQAEGLWPP AVLLHHHHHHPHHHYHHYHHH HHHHHHP*HHHPHHHHHHHRN HHHHHHHHLHHHHHHHHHL YHSHYHHH/HHHHDHHHYHH FHDHYHHHHH/HYSHH/HHPH/ HHHH*RHDHY/AHHHHHQ\HH CHHCHHPHRHGHHYHHHGT VAFGALEDSAVARTGLPLPEGV LCGAPTAASA AVPPPAVPAPN QGRGPQLHPGQQLRPLLHAHA ALQWPTTHL
19759	50127	A	19874	3	411	
19760	50128	A	19875	1	1095	
19761	50129	A	19876	1	471	
19762	50130	A	19877	1	554	FRGRLASFRPVPMEALGKLKQ FDAYPKTLEDFRVKTCGGATV TIVSGLLMLLLFLSELQYYLTTE /VKGRGLMRGRGLAF*E*DL*G WEWGRRGLGLSLTEVALPQVH PELYVDKSRGDKLKINIDVLF HMPCAYLSIDAMDVAGEQQLD VEHNLFKQRLDKDGIPVSSEAE RHVLSFVVSAD
19763	50131	B	19878	1116	1274	
19764	50132	A	19879	28	389	

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19765	50133	A	19880	75	448	
19766	50134	A	19881	276	830	QEDSCPLHPLSGIPFRRFQPTPE EAGAVVPGEPTHDQGPSSALT RR*ACQGPLHLARTTAEPGHAH PWH*RWQRYMGKLGRDLEKV CPVWSSVACSSPGLSWAGKTE AKTSLEGGNSASASASSWAWG RSSLAPVRDILGSREFSGLLEGT FVLSVTLSADFGIGTWVDLGKV TGSSSKEGRL
19767	50135	A	19882	223	1269	APVTKRKEVFAKDSKGSALDA GRDPKRPALPETLCESGWASNT APTAPPQPGWCLCGKDFKSSCQ TPGREKERRLATMHGSCSFLML LLPLLLLLVATTGPVGALTDEE KRLMVELHNLYRAQVSPASD MLHMRWDEELAAFAKAYARQ CVWGHNKERGRGENLFAITD EGMDVPLAMEEWHHEA*/DTT TSAP/HSCSPGQMCGRYTQVVW AKTERJGCGSH\SCEKLQGV EET NIELLCNYEPPGNVKGKRPYQ EGTPGSQCPSGYHCKNSLCEPI GSPEDAQDLPYLVT EAPSFRAT EASDSMKMGAEGPKPSVVSG LNSGPGHVWGPLLGLLLLPLV LAGIF
19768	50136	A	19883	2	281	FVPALGSSAVMLSRSRCVSRF SRSLSAFQ/KGVSLCQGP GYPNS RKVVINNSVFSVRFFRTTAVCK DDLVTVKTPAFAESVTEGDVR WEKGKI

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19769	50137	A	19884	1	1320	MPAVTILKPNLKQIILGLKAAE VSSLPPSIVLDAKEITTQITRQIL KGNCPLGRHSLPGVSLCQGP PNSRKVVINNSVFSVRFFRTT CKYDLVTVKTPAFAEPVTEGD VRWEKAVGDTVAEDEVVCEIE TDKTLVQVPSPANGMIEALFVP DGGKVEGGTPLFTLRKTGAAP AKAKPAEAPAAAAPKAEP AVPPRAAPIPT/QMPPVPS SSKPVSAEAQNTCA\MLTIFNEI DVSNIQKMRARHKEAFLKKHN LKLGFMSASVKASAFALQEQP VVNAVIDDITKEVVYRDYIDIS VAVATPQGLVVPVIRNVEAMN YADIEQTITELGEKARKNEFAIE DMDGGTFTISNGGVFGSLF/GTP IINPPSAILGMHGIFDKPVAIGG KVEVQPMYVALTYDHRLLIDG REAVTFLRKIKAAVEDPRVLLF
19770	50138	A	19885	1	1559	MESEALVVCINHCMAVNYGMI YQRGSSNMNLSLSLKHPEKTGI SPTANHGISDLQEGEACGSLR TPLVGRRVLRPAPLPVVVRPYI RCPPALGSSAVMLSRSCVSRA FSRSLSAFQKGNCPLGRRSLPED DLVTVKTPAFAESVTEGDVRW EKAVGDTVAEDEVVCEIETDKT SVQVPSPANGVIEALLVPDGGK VEGGTPLFTLRKTGAAPAKAKP AEAPAAAAPKAEP APIPTQMPPVPSQPPSGKPVS AVKPTVAPPLAEPGAGKGLRSE HREKMNR\MRQRIAQRLKEAQ NTCAMLTTFNEIDMSNIQEMRA RHKEAFL\RKLLKLRLMSAIV EGSA\FALQE\KPLLMGIDDTT KEVVYRDYIDISVAVAHPRGLV VPVIRNVEAMNFADIERTITELG EKARKNELAIEDMDGGTFTISN GGVFGSLFGTPIINPPQSAILGM HGIFDRPVAIGGKVEVRPMMY VALTYDHRLLIDGREAVTFLRKI KAAVEDPRVLLLDL
19771	50139	B	19886	239	3045	

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19772	50140	A	19887	3	809	RGRFLPPCHPAALPPCRPAALLP VVAARGAPSPPPPHVLPVCGSG LGYNMLGMIKNSLFGSVETWP WKVLSKGDKEEVAYEERACEG G\KFATVEVTDKPV\DEALTGK QLPKV\AKYAGGTNDKG\IGMG MTVPISFA\VFPN*RWLSCRKKL KVWFPDFQTNFQSDPPAPS\DKS VK\EEREGIHCLIPCQFGGYAK\ EADYV\AQATR\LRAALGG\PAT YRGDIYFCTGYDPPMK\PYGRR NE\WLFEDMSDPTERTYWEV CLCVSFLRG
19773	50141	C	19888	164	208	
19774	50142	A	19889	1542	1929	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPT\SWGRGKYPSTPS PSPLAASPAFLGGKNPIAYFHT PTSYLCAPYFCAPTPSLLFWR ARTTTPTPSLCLKSFL
19775	50143	A	19890	1	208	MPEPQRPGVPPEPPPPGACYAC RKSGHWA\RNARSPGFLLSRVP SPPGPSRTPSFG*LSQWKPTCTQ VK
19776	50144	A	19891	1	1662	
19777	50145	B	19892	1	915	
19778	50146	A	19893	183	569	
19779	50147	C	19894	71	344	
19780	50148	A	19895	147	446	
19781	50149	A	19896	167	373	
19782	50150	A	19897	142	363	
19783	50151	C	19898	52	174	
19784	50152	C	19899	228	260	
19785	50153	A	19900	1	753	
19786	50154	A	19901	1	1077	
19787	50155	A	19902	500	912	LGSGDFPWEINPLSSCSL/LREK DPRTTSGPQTDQPSKHLTNLKS ASTPPYPNPFITSPPHTRSLQFR STSSPPAPAQQFTLKKVAEAKG IVKVNAPFSLSDLSQISVRLGSFI KYEKSSPVHGSFGSNPETLYSP
19788	50156	A	19903	1	861	
19789	50157	B	19904	174	222	
19790	50158	A	19905	1	756	

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19791	50159	A	19906	1035	1852	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPT\SWGRGKYPSTPS PSPLAASPAFLGQRQVPLSWGR GRCPSTPSPSPAASPAFLGQQQ RQVPLSWGRGRCPSTPSPSPA ASPAFLGQQQRQVPLSWGRGR CPSTPSPSPAASPAFLGQQQRQ VPLSWGRGRYPSTPSPSPAASP AFLGQQQRQVPLSWGRGRCP TPSPSPAASPAFLGQRQVPLSW GRYPSTPSPSPAASPTFLGQDL PLSWG
19792	50160	A	19907	1644	1981	LGSGDLPWEINPSSSCSLLREKD PPTTSGPQTDQPKKHLTNFKSA *KRTNTASYK/WHSQSRVPAPR DGLVAAPTESEVAFLPVPPHQG PPLGNLGPSTVTTSFRCWLLDP RS
19793	50161	A	19908	1011	1154	
19794	50162	A	19909	1043	1168	
19795	50163	A	19910	1328	1470	
19796	50164	B	19911	406	1191	
19797	50165	A	19912	2848	3140	SFYHLSSSHLVRLTVSFRD*PSP TCPAIYS*KGGWSQRHSQGACY TCRKSGHWA\RNARSPGFLLSH VPSVWDPTENRTVQLTWQPIPE PLELWPKAL
19798	50166	B	19913	1	941	
19799	50167	A	19914	656	1983	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSEAKEICFIREPKTPAPVT DWEGLPLVFNHCRDASLIHS RFKGVPRRDACLGPSPLAASPI FLGKGQRLKTDARLPKPPRP SRMPSTFGVKHVNVTIDCLPEGA ATRGTARTSKPTTKSQKTLPT SPGHWTQSTPWASALRSSPWTE TAAPSETEETLNTGRPEL PARA TATWFSASHTLPALATRRVART QWLTADRQTWASISSVPWAQT ISEKKPGGSLWETRSPPTTAGT EEAMNTTSLAPAAEIMATPGS PSQASPTSGAFTHGTQTPSPTKA TAPRYPQTGNSILTFGRPFLPFA GDLFAEWPFTAGEEPVLVPRPH QVSKTRSPPSFHLTLKTVTVL LGNGEECYVYLSVSELREIRTR LYSPDAGLNEEKMLTKLLLI
19800	50168	A	19915	117	432	
19801	50169	C	19916	122	289	

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19802	50170	A	19917	1	516	
19803	50171	B	19918	212	3302	
19804	50172	C	19919	181	444	
19805	50173	A	19920	151	485	SPRGHYQLLLSGRALADRYRRI YTAALNDRDQGGGSAGHPAS/ RSENLENTVIIPDIKLHSNPSAFN IYCNVRHCVLEWQKKEISLAAA SKNSVQSGESDSDEEEESKEPPI
19806	50174	A	19921	1	3465	
19807	50175	A	19922	1	176	
19808	50176	A	19923	114	14211	AAPVAAPGALFMPVPDGSVAA AGLGLGLPAADSPGHYQLLLSG RALADRYRRIYTAALNDRDQG GGSAGHPASRNKKILNKKKLLK RKQKSKSKVKTRSKSENLENTV IIPDIKLHSNPSAFNIYCNVRHC VLEWQKKEISLAAASKNSVQS GESDSDEEEESKEPIKLPKIIEV GLCEVFELIKETRFSHPSLCLRS LQALLNVLQGQQPEVLQSEPPE VLESFLQLLEITVRSTGMNDST GQSLTALSCACL
19809	50177	A	19924	375	1191	SQGIPELHYTPGPRGRWCGWW PIVEPRMGASQGCCVLGHLAQ QGGGASQAVRGANGVHAGCR GDPHPRSDHYPGGRPWLPAS QDPAVAPGGHGHPSYLARLPC AAEPGTP/PAEPPRPSSLPGAAT APAGT*/PALADAPPRRVGGAG QPGRGHV*PKLVPGWQSQDSI* PSL/PSSPARHTLAASATP*APGS GARPAW*C*WAPALAPVIPVD AHSP\GGAGHGPGH*GPRGSV LGLRLPAGCP\GPRQPHRPGQSG PQPSSPPGGALRSASR
19810	50178	A	19925	3	543	SDDQPEKPHFDSRSVIFELDSCN GSGKVCLVYKSGKPALAEDTEI WFLDRALYWHFLTDTFTAYYR LLITHLGLPQWQYAFT\SYGISP QAKGITKATCEWGEHIPLGSM AINSISKLTLTQSSMYSLPNAP TLADLEDDTHEGRKGTEGSQ KCEHQLPPPM SHVGGGQRESL ARKEK
19811	50179	A	19926	1	392	FLDRALYWHFLTDTFTAYY\RL LITHLGLPQWQYAFTSYGISPQ AKITYNIKMNRRKCVHWKLA EPLQWELRSCVSAGMGTGPKQ KVSSMKPRSCSVCSRQNSMG TTVSQSFLSYGKNVLFPPVRCC

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19812	50180	A	19927	1	1081	RAMEEEASSPGLGCSKPHLEKL TLGITRILESSPGVTEVTIIEKPP AERHMISSWEQKNNCVMPEDEV KNFYLMTNGFHTWSVKLDE HIIPLGEALAINKHLKTDFTQ SSMLFTFLIAPT LGQTWEDDTH GSQWMIQPEKPHFGLFAVLIF* GWVS\CNGSG\KVCLV\YKSG\K PALAEGHWRFLFPGTELLYWH FLTDTFTAYYR\LLIT\HLGLPQ\ WAILPFTSYGISPQAKQW\FSM Y*TYSPYNTNLV/TQKETDSFCG IKLDPSKVF*GGKNKIVIPKKKG PVQPAGG\QKGPFRDPPVPSISSI FKSSSGLWGNPTREVSTPPSNSL PAPEWWFPCTDGPRGDLQFCV WTVGLFLVE
19813	50181	A	19928	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVDHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHPGELGVKI
19814	50182	A	19929	3	142	TISSIIRKARKP\QDLLNNYTPRS SPLRSSGRTRMYKGNVPRPGNS S
19815	50183	A	19930	904	1295	WALMNGSESFFVSSSQGRSEL VPNS/NYAVDY*PLTAHAVSSG GTSPVLARLLREKLESLLPLHL GQVAKYAGQLRGRVKQQFAT MGERRRFWEKLFVNDR/AGAV AGKQRSESHY*NDRTVNQRTA RPSR
19816	50184	B	19932	1	1050	
19817	50185	A	19933	303	384	

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19818	50186	A	19934	375	1161	EALSAPEG/RR*GSGTKTSPSP P/PAGSWVCRIPMGRGCRHGAE R/P/PGSQESSPSNGHGLAGPSP YLGRFKSSS*T*QSPQTPAQGVS AS*GLGAAPVLRLLQGPVPP\SHC GKSRPDPC*PSPGSPDPPGERES QQESQ*WPPVGELCTDPTGNPE RGGRHLQ\SHAPSGGGLSGFPS DSFPCSCYYGSTPVARKKRFK CRGYIYDFVYELLSLKPPSQGV AEMPPPAVGQQG\QAEPRGIPQ SPAGGRVFFQDFYSLCLENTS
19819	50187	B	19935	62	346	
19820	50188	B	19936	1	1629	
19821	50189	A	19937	1	1218	
19822	50190	C	19938	718	1053	
19823	50191	A	19939	54	212	
19824	50192	A	19940	122	451	
19825	50193	A	19941	329	398	FFSYFRPSGCILPL*ELPEARCP
19826	50194	A	19942	92	346	VGSSPSRL*SLRGQVLNKN*S/I QLGCLHIVGNPI*NS*DVPWAG WSED*GRRWISSRSSSKDRGPV S*RSPPVPGQLQHQMASHM
19827	50195	A	19943	284	374	LKNHHRSEYALPHLN**PSTTK EV*M/DRS/SALSDDITL*KSFWS LILAQKSPPLSTLQPPLLPAREQ TLFDCNSPLPTQIL*NGPTLISLR *LSQDEPGKGLSQGNVIT
19828	50196	A	19944	1	1674	MAPPLSPFADSLFGLSPPAPRDK GDTFYPTWQNSGARHGLGRQP SLGVSSLQGRSLSDHSPTFQRCQ TTQGRLPWSFTLSGKSCFSEEG AIPTPSVAESFQSSFSTDPDLSP PPQPAHRQAELSPNSSASTPPP YNPPTTSPPHTRSGLQFSSATSS SPPAQFPLREVAGAEGIVNAH VPFSLSDLSQISQHLGSFSSDPT KYIQEFRYLTLSYNLTWSDLNV ILTSTLSPDERERVFPVSQSHAD NRRLHEP

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19829	50197	A	19945	1746	3501	ESDPSNSTTSMDR TLL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPDISHQQAALLRTY LKNLSPYINSTPPIFGPLTTQTTI PVAAPLCISWQRPTGIPLGNLSP SRCSFTLHLRSPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPCLSLHPWLSSPCSSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHENRTFPSTQLPHQSPL QPLTAAALAGSLGVWVQDTPF STPSHLFTLHLQFCLAQGLFFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPLIPLMVGLGLSASTVA LGTGIAGISTSVMTFRSLNDFS ASITDISQTL SVLQAQVDSLAA VVLQNRRLDLLTAEKGGLCIF LNECCFYLNQSGLVYDNIKKL KDRAQKLANQASNYAEPWPAL SNWMSWVLPVSPLIPIFLLLF GPCIFRLVSQFIQNRIQAITNHSI RQMFLLTSPQYHPLPQDLPSA
19830	50198	A	19946	1392	1676	GFCILHIVLEPWFSAPSAPLSTSL YWLF*LYILLNFFQSFQLLCLW FECPPVAQSNLIV*SLLLSARQS HSPSSFFPLLVRNCVPLEEERCS
19831	50199	B	19947	1	1500	
19832	50200	A	19948	107	691	TTMLLIQSLFGGLFTWTRMKFG AVARIGGHPLGDQSPSSCSLLP EKDPPTTSGPQIDQPKKHLTDF KSGTPL*LYTHVSRVSDHAGTP ALVLHPYVGKSRFSGEGATQRQ YPIPQQALKGLMPAITRLLQHG LLKPINSPIYHSPILPVLPKDPKY KLVDQLPLSTKLFLCLSTPWCQT HILFYPQYLPLQPIILF
19833	50201	B	19949	1	2628	
19834	50202	B	19950	1	585	
19835	50203	B	19951	178	462	
19836	50204	C	19952	1	825	

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19837	50205	A	19953	644	1795	RPSKSQTMNLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAASHIIPDTPD PHDCISLIHLTFTFPQISFFPVSH DHTWFIDGSSTRPN\TTHQQRQ AML*YLPHLRLPLCLPPLPLS KPN*LP*LKPINSYPNSPILPVQK PDKSYRLVQDLRLINQIVLPIHP VVPNPYTLSSIPSSTTHYSMLD LKDAFFTIPLHPSSQPLFAFTWT DPDTHQSQQLTWAVLPQGFRD SPHYFSQALSHDLLSFHPSASHL IQYIDDLLCSPSFESSQQDRTL LLQCLFSKGYRVSPSKAQISSPS VTYLGIIHKNTHALPADRWPS CLRAAAAAALILVEALKITNYA QLTYSSHNFQNLFSSSHLTHIL SAPRLLLLYSLFVESPTITIVPGL DLNAASHIIPDTPDPHDCISLIH LTFTFPQISFFPVSHPDHTWFID GSSTRPNHHSPAKAGYAIVSST SIIETALPPSTTSQQAELVTLT QALTLAKGLRINIYTD SKYAFHI LQHHA VIWAERGFLT TQGSSIN ASLIKTLKTTLLPKEAGVIHCK GHQKASDPALGNAYADKVAR QAASSPTSVPHSQFFSFASVTPT YSPTETSTYQSLPTQGWFLDQ GKYLLPASQAHSILSSFHNLFH VGYPKPLDRLLLEPLISFPSWKSIL KEITSQCSICYSTTPQGLFRPPPF PTHQARGFAPAQDWQIDFTHM
19838	50206	A	19954	52	641	RPSKSQTMNLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAASHIIPDTPD PHDCISLIHLTFTFPQISFFPVSH DHTWFIDGSSTRPN\TTHQQRQ AML*YLPHLRLPLCLPPLPLS KPN*LP*LKPSLLQKDYASISILI LNMPFIFCTMQSYGLKEVSSL HKGPPSLMPL
19839	50207	A	19955	3	380	TTPDPHDCISLIHLTFTFPFHISFF RVPHPYHIWFIDGSSTRPNATH QQRQAML*YLPHLRLRLCLCPP PLPLSKPN*LP*LKPSLLQKDYA SIFILTLNMPFISCTTMQEVSSLH KGPLSLIPL

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19840	50208	A	19956	154	485	TFIRTHFLTQPQPCPRHQPSR*L SSSPAG*TG/IFARLLIFSCLLQI LNHM/QHTLAGQSVLVKNLTP QTLQPRWTGPYLVYSTPT/VRP PAGSSPLGSPFQSKAVSISQPA
19841	50209	A	19957	158	416	ISGTCSNLLGEEVLEERLAAAV QAFGSSRVLEMWLGFSVQWRQ VIVTQKCIADVWLLPLYCYTP*R QG*LIPVVGFEQGILIFEVFS
19842	50210	C	19958	1	1755	
19843	50211	A	19959	2	394	
19844	50212	A	19960	710	1093	KEPTQHSFSYTHSLLSLPQLPLF L/CPDFNPASHIIPDITPDPHDCI SLIHLTFTPPHISFFPVSHPDHT WFTDGSSTRPN\ATHQQRQDM Q*YLPHELLLTLPLCPPPLPSKP NQLP*LRPSLLQKG
19845	50213	C	19961	1	1287	
19846	50214	A	19962	1	1293	MEEPLGFKQTLVVAQQNPLWT SGGGGHSPSGSGHRGVCITLTP VPEGSSQKETPHVSEKLKEKNE SLPGNPENSSSRERPPRRHKA RDSDEENDPDEDAVVNAVGC LGKNSGFLAPELQKYQKQKIDG TAGTPAISTTTTVEIRKSSVMTT GDHLLSGKKAQRPAPGHSSCPS TETEEKGKRLLYWVVWQVA VNSASQLEAHNSENPVLSCRI RERPGLWHGYRPSRSPHLSLS GSYSLWALRTDTVCD
19847	50215	C	19963	1	846	
19848	50216	B	19964	377	1172	
19849	50217	A	19965	564	1163	FPKSIFFLPPDAYTFLFPWLLQL YSLFVESPTITHCSWPRLQSGLP HYSGYHT*PS*LYLSDPPDIHPIS AYFLLSCSSP*SRLIY*WQFHQA *SPHTSKGRLCYSTSH*PAS*NL SFPFHRGNVSSRK*LLSVPSAIL LLRDYSGPLPSLHIKLRDLPPP RTGKSA\YSTCPESGN*NTSWSR *TLICQS
19850	50218	A	19966	1382	1778	PIGTNTECVVLFQPMETGHSSR VNMSGYK*PC/PPLFGVLSWQN CWRVYPFCLLFGGPLSVMDPE GSPSGC/SNSLGLGADSVTLSTG GVFQPNVRGLNCNGKIVMGRC PLEFVPIPATSPISRKKPERSTAF

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19851	50219	A	19967	239	737	RPSFKTPENSPTLVPTWTTLFYA LFFSYPHLPTSLIRPKYFNQICF PDYSWSTATSHCCPSSQSK/CLL CV/SLTSPQYQPLPQDLPSA*SLP L*VPTPPLIPLEAALRNIAHSLSI PPPKNFRRSNTSTLFCFICLINIR RQECQASEPRPGHRIPCDLHVYI QMA
19852	50220	B	19968	1	1321	
19853	50221	A	19969	1	1069	
19854	50222	B	19970	758	6451	
19855	50223	A	19971	53	319	CSGSMPSSSSVSRPTSPFGSPLLS SPATSSSPKTPPTSATSGSSCPTT GL*MWTWSGFTGPVKAATWR WTSATYPRWSWRPRAPLCP
19856	50224	A	19972	1427	2103	RPVHGH LHAVPVWRDSVRGLA PSSSPRPVGRDLIKQTPRLRARV VLSPFKTADAAHSHPGLTQPGR GRMKADISAATPGPFMCRTVPL ALGVSTEPSPARLVLFVLCF VLRSLALSPRLEVLWDLGSL QPPPP\GFKQFSCLSLPSSW\DYR CMPPWAG\QFLEF*VEDGV*HI GQADLELLTSGDPPASASQSAG ITGVSNRAQPQVSEC GHGVAL RRQ
19857	50225	A	19973	3	320	VRMVIKKSENNRCWRKCGEIG MLLNCW*ECKLVQPVWKT/VD PAIPLLGIYPKDYISFYGKDTCT HMFIVALFTIAKTGNQPKCPMI DWIKKMWHIYTMEYYAAI
19858	50226	A	19974	2	79	
19859	50227	A	19975	308	630	GREKAREQVDLTFTIAKTWN QPKCPSVIDWIKKIW/HIYTMGY YAAIKKDEFVSFAGT\WMKL*T VSVEADPHIEGRFFRFRKNYASK TPSLKLQRQSRPFQETSHPTGIE KRSPPNLQKATQPHIMSKEYA FSRMYGKTGRKKGEVKVRER KGKGAGRSDTIYNSKDLEPTQ MPISDRLDKENMDIYTMGYA AIKKDEFVSFAGTMDEAVNQG YSSRARTRHWSMKKILLQLAR CLPKWPLSFVLESQGLGGVGS

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19860	50228	A	19976	2	508	KTMMRYYLTPVRMAIHKSEN RCWRGCGETRMLLHCWFECKL VQLLWKTW*FLKDVELKIPFD PAIPLLGVYPKDYKSCYYKDT TRMFIAALFTIAKTWNQPKCPS VIDWIKKMWHIYTMYYAAIK KDEFVSFAGTWMKLETILSKL SQGQKTKHRMFSLSGS
19861	50229	A	19977	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKIM NRHFSKEDIYAAKHKMKCSP SLAIREMQIKTTMRYHLTPVRM AIKKSGNNRCRRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DL\DPAILLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
19862	50230	B	19978	1	1899	
19863	50231	A	19979	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIKQKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
19864	50232	A	19980	1	5127	

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19865	50233	A	19981	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGNFRPISLMNI DAKIL
19866	50234	A	19982	1	1698	MELKAKAQELREECRSLRSRC NQLEESVSVMEDMNEMKREG KFREKRIKRNEQSLQEIWYVK RPNLRLTGVHESDGENGTKLEN TLQDIIQENFPNLAQANIQIEI QRTQPQYSSRRATPRHIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLAETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTTRP ALQELLKEALNMERKNRDTNR LKIKGWRKIYQANGKQKKAGV AILVSDKTDFKPTKILKDKEGH YIIVKGLIQEELTILNTYAPSTG APRFKQVRSDDLQRDLDSHTLII GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLDIYRTLHPK STEYTFFSAPHHTYSKIDHIVGS KALLSKCKRTEITNYLSDHSAI KLELRIKLTQNHSTTWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTYQNLWDTFKVVTCTG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKTL/QKINESRS WFFERINKIDRPL
19867	50235	A	19983	1	3450	
19868	50236	B	19984	1	2265	

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19869	50237	A	19985	1	2526	MFFETNENEDTSYQNLRTDFKV VFRWKIHALNAHKRKQERSKID TLTSKLKELEKQQQTNSKASRR HEITNIRAELEIETQKTLQKIN ESVNWFEEKIHKIDRLRLARIKK KREKNQIDSIKNDIEDITDPVE TQTTVREYFKHLYANKLENLEE MDKFLDTYILPSLSQEEVEPLN RPITGSEIEAIINSLPTKKSPGPD RFTAKFYQRITNTEKCLKELME/ PESQSSRTT*RMQKPQESMRST GRKGFSDGR*NE*NE*RGAWN QVGKHSAGYYPGELPQTSKAG QHSDSGNTENATKILLEKSNSK TYNCQIHQS*NEGKNVKGSGRE RNTNYHQRILQTPLRK*TRKS\K EMDKFLDTYTLPRLNEEEEVESL NTPITGSEIVAIINSLPTKKSPGP DGFTAELYQRQTESQIMSELPF TIASKRIKYVGIRLIRDVKDLFK ENYKPLLSEIKEDTNKWNIPIC SWVGRINIVKMAILPKVIYRFN AIPKLPMPFFTELEKTTLNFIW NQKRAHIANSLSQKNKAGGIT LPDFKLYYKATVTKTAWYWY QNREIDEWNTTEPSEIMPHIYN YLIFDKPEKNKQWEKDSL FNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGIGDDFMSKTPK AMATKAKIDRWDLIKLKSFCT AKETTIRVNRQPTKWEKIFATY
19870	50238	A	19986	1	3723	
19871	50239	A	19987	1	1023	
19872	50240	B	19988	91	1596	
19873	50241	B	19989	1	3171	
19874	50242	A	19990	1	2952	MLLNQGRKLPRVFAETLKFK GTSNKPQTLEQISTSIIAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNLYQEFLLTP QWHLECQQERTVHSPGKAAEA REPSVIDRHLIQESSNWHLVGA ALGQSFORKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
19875	50243	A	19991	1	1797	

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19876	50244	A	19992	1	2367	MVKGSIQQEELTNLNMYAPNT GAPRFIKQVLSLDLQRDLDSHTLI MGDFNTQLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYISDHS AIKLELRIKNLTQNCSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKVVC RGKFIALNAHKRKQERSKTDTL TSQKLEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDKGDITTDPTIEQS TIREYYKHLTYTNKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGAEIVAI/NNLPTKKSPGPDGF TAEFYQRK\EGILPNSFYEASILI PKPDRDTTKKENFRPISLMNID AKILNKILANRIQQHITKLIHHD QVGFIQGMQGWFNIRKSIRVIQ HINRTKDKNYMIISIDAEKAFD KIKQCFMLKTLNKLGDGTYFK IIRAIYDKPTANIILNGQKLEAFP LKTGTREGCPLSPLLFNIVLEVL ARAIQKEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSGYKINVQKSQAFI YTNNRQTESQIMSELPFTIASKR IKYLGILTRDRKDLFKENYKP LLKEIKEDTNKWKNIPCSWVEK INIVKMAILPKVIYRFNAIPKLP
19877	50245	A	19993	2	2910	WRKIYQANGK/QKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIHQEELTILNIYAPNTGAPRFI KQVLSLDLQRDLDSHTIIMGDFN TPLSTLDRSMRQKVNKDTQEF NSALHQADLIDIYRTLHPKSTE YTFFSAPYHTYSKIDHIVQSKAL LSKCKRSEITNCLSDHSAIKLD LRIKKLTQNHSTTWKLNLLLN NYWVHNEMKAEIKMFFETNEN KDTTYQNLWDTFKAVCRGIFIA LNAHKRKQETS
19878	50246	A	19994	1	4729	
19879	50247	A	19995	1	1566	
19880	50248	B	19996	1	2796	
19881	50249	B	19997	127	2479	
19882	50250	B	19998	1	2907	

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19883	50251	A	19999	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKRQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
19884	50252	A	20000	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKRQEGSKID TLTSQLKELEKQEQTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRSARLIKKKREKNQI/DAIKN DKRDITIDPTEIQTIREYYKHL YANKLENLEEMDKFLDTYTL RLNQEEVESLNRPI TGSEIVAIIN SLPTKKSPGPEGFTA EFYQRYK EELVPFLLKLFQSTEKEGILPNS FYEASIIIPKGRDITTKKENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIISID AEKVFDKIQQRFMLKTLNKL LEVLARAVRQEKKIKGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDVNWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTSFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY

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19885	50253	A	20001	1	2314	MDKFLDTYTLPRLNQEEVESLN RSITGSEIVAILNSLPTKKSPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTSKKENFRPIPLMNIDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHTNRA KDKNHMIISIDAEKAFDKIQQLF MLKTLNKLIDGMYLKIRRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAIR QEKEIKGIQLGKEEVKLSLADF DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTLASKRIKYL IQLTRDVKDLFKENYKPLLNEI KEDTNKWKNIPCSWVGRINIVK MAILPKVIYRLNAIPIKLPMPPF TELEKTTLKFIWNQKRARVAKS ILSQKNKAGGITLPDFKLYYKAI VTKTAWYWYQNRDIDQWNRT EPSEITPHINNYLIFDKPDKNKQ WGKDSL FNKWCWENGLAICRK LKLDPFLTPYTKINSRWIKDLN VRPKTRKTLEENLGITIQDIGMG KDFMSKTPKAMATKDKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKKCSSSLA IREMQIKTTMRYHLTPVRMAII KKSGNNRLFTVAKTWIQPKCA

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19886	50254	A	20002	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKTVQKINES RSWFFERINKIDRQLARLIKKR EKNLIDAIKNDKGDITTDPTIEIQ TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD

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19887	50255	A	20003	1	2502	MTELTGIQPPQIVLFEHKGHKL VQGSSSDAGKVNRIYQHYES DKFNYTTGLAWKTAPEQTGKT VRKQIQIKLVKKMESRSKMQE HSSSPMEQSWRENDFDELREE AFRRSNYSELQEEIQTGQEVK NFEKTLDEYITRITNTEKCLKEL MELKAKARELREECRSLRSRCD QLEERVSVMEDEMNMKREG KFREKRIKRNEQSLQEKWDYV KTPNLRLIGVPESDGENGTKLE NTLQDIIQENLPNLVRQANIQIQ EIQRTQPQYSSRRATPRHIIVRFT KVEMKEKMLRAAREKEIQTIR EYYKHL YANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTGS EIVAIINSLPTKKSP/GPVGFTAE FCQRK\EGILSISFCEASIIIPKL GRDTTKKENFRPISLMTIDTKIF NKILANQIQQHIKKLIHHDQVG FIPGMQGWFNICKSINVQHINR TKDKNHMIISIDAEKAFDKIQQL FMLKTLNKLIGDGYFKIIRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLAGAIR QEKEIKGVQLGKEEVKLSLFAD DMIVYLENHIVSAQNLLKLISNF SKVSGYKINVQKSLAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNI PCSWVGRINIVK MAILSKVIYRFNAIPINLPITVFT
19888	50256	B	20004	1	2115	
19889	50257	A	20005	1	2382	
19890	50258	A	20006	1	2742	
19891	50259	A	20007	1	2250	
19892	50260	A	20008	1	2982	
19893	50261	A	20009	1	4791	
19894	50262	A	20010	1	2499	
19895	50263	A	20011	1	3259	
19896	50264	A	20012	1	3654	
19897	50265	A	20013	1	2391	

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19898	50266	A	20014	326	1158	LWICEVMVKQRSRILKICLQKQ WQKTLAMWLKPCMGTFLLQL C*LDIAWV/RAIAVHTASSNLVP SLLGLCMIDVVEGTAMDALNS MQNFLRGRPCTFKSLENAIEWS VKSGQIRNLESARVSMVGQVK QCEGITSPEGSKSIVEGIIIEEEE DEEGSESISKRKEDDMETKKD HPYTWRIELAKTEKYWDGWFR GLSNLFLSCPIKLLLLAGVDRL DKDLTIGQMKGKFMQVLPQC GHAVHEDAPDKVAEAVATFLI RHRFAEPIGGFQCVFPGC
19899	50267	A	20015	1	2860	
19900	50268	A	20016	1	2956	
19901	50269	A	20017	1	3359	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDAQEVNLTSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDFKPTKIK RDKEGHYIMVKGSIQQEELTIL NTYAPNTGAPRFIKQVLSLQRL DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
19902	50270	A	20018	3	3130	
19903	50271	B	20019	8	2398	
19904	50272	A	20020	3	3398	SNSHITILTLNVNGLNAPIKRHR LANWIK\SQDP\SVSCIQETHLTC RDTHRLKIKGWRKIYQANGKQ KKSTVAILVSDKTDFKPTKIKR DKEGHYIMVKG*IQ*EELTILNI YAPNTGAPRFIKQVLRDLQRDL DSHPIMGDFNTPLSTLDRSMR QKVNKDIQDLNSALHQADLTDI YRTLHPKSTEYTFSPPHHTYSK TDHIVGSKALVSKCKRTEITNC LSDHSAIKLELRIKKLTQNRSTT WKLNNL
19905	50273	B	20021	483	2210	

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19906	50274	A	20022	1	5316	MVKGSIHQEELTILNIYAPNTG APRFIKQVLSDLQRDLDFHTLI MGDFNTPLSTMDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFYSAPHHTYSKIDHILG SKALPSKCKRTDIITNYLSDHSA IKLELRIKNLTQNHSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYENLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TKIRAEQINKIDR
19907	50275	A	20023	2	2712	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNNLLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIAL NAHKRKQERSKIDTLTSQLKEL EKQEQTLSKASRRQEITKIRAE KEIETQKTLQKINESRSRFFERIN KIDR*TLARVIKKKGEKNQIDTI KNDKGDITDPTEIQTITRESYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPIITGSEIVAI VNSLPTKKSPGPDGFTAIFYQR YKEELVPFLKLLQSIEKEGILP HSFYEASIIIPKPRDITTKKEN FRPISLMNIDAKILNKILANQIQ QHIKKLIHHDQVGFIPGMQGW NTCKSINVIQHINRTKDKNHMII SIDAEKAFDKIQPFMLKTLNK LVLEVLARAIRQEKEIKGIQLGK EEVKLSLFADDMIVDLENPIVS AQNLLKLISNFSKVSQYKINVQ KSQAFLYNNNRQTESQIMSELA FTIASKRIKYLGIQLTRDVKDLF NENYKPLLNEIQEDTNKWKNI CSWVGRINIVKMAILPKVIYRF

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19908	50276	A	20024	1	4461	MVASRSSRVGVFYGGQNSVDG VSRSDGSLNELCLYRPTGAY LAYDTLDVLP SGQFTVNTPPID VNGKSLALLWEHTSLLTSMG GGRWAMQPLGQLGQLEHLGD RRDQVLDRSGRSRLDAAQHL RHRPDRRPQGMVGVLTNQKEP RTRWIHSRILPEVQGGTGTVPSE TIPIDRKEGILPNLFDEASIILPK RGRDTTKKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWFNICK
19909	50277	B	20025	1183	4247	
19910	50278	A	20026	1	2671	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDDTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEKEKQEQT HSKASRRQ EITKIRAELEKETQKTLQKINES RSWFFERINKIDRPLARLIKKR EKNQIDTIKNDKGDITDPTEIQ TTIREYYKHL YANKLENLEEM DTFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAIFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGGSGQGNQAGEGNKGY SIRKRGSIQVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQSLRIQN QCTKITSILIHQKQTNREPHE* TPIHNCFKENKIPRNPTYKGCEG PLQGELQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHTAQ GNLQIQCHPLQATNDFLHRIGK NYFKVHMEPKKSPHRQVNP KP KEQSWRHHTT*LQTLQGYSNQ NSMVLVPKQRYRSMEQNRAL RNNAAYLHYSDL*QT*EKQA WGKGIP\IYKM\AL\GLAS\PM*

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19911	50279	A	20027	1	3159	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAELEIETQKTLQ\KISES WSWFFEKINKIDRPQARLIKKK REKNQIDTIKND
19912	50280	A	20028	2	3767	HRLANWIKSQDPSVCCIQEAYL TCRDTHRLKIKGWRKIYQANG KQKAGVAILVSDKTDFKPTKI KRDKEGLYIMVKGSIPEELTIL NIYAPNPEAPRFTKQVLSDLQR DVDSHTIILGDFNTPLSALDRSM RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHHTY SKIDHRVGSKALLSKCKRSEIIT NCLSDHSAIKLELRIKKLTQNC TTWKLNNLLLNDYWVHNEMK AEIKMFFETNEN
19913	50281	A	20029	3311	9648	KLYVCITRITNAEYKELKELMEL KAKAQELCEECSLRSRHDQLE ERVSVMEDQMNMKQEEKFRE KRRKRNEQSLQEIWVYKRPN LRLIGVPESDGENGTLENTLQ DIIQKNFPNLARQANIYIQEI QRTQPQRYSPRRATPRHIVRFTK VDMKEKMLRAVREKGFKPTKI RRDKEGHYIMVKGSIQQEELTI LNIYAPNTGGPRFIKQVLSDLQ RDLDSTHIMMGDFNTPLSTLDRS MRQKINKDIQEL
19914	50282	A	20030	2031	6332	QDSNSHITILTLN\INGLNAPI*R HD\RNCNWIKSQDPSVCCIQET HLTCRDTHRLKIKGWRKIYQA NGKQKKKAGVAILVSDKTDFN PTKIKRDKEGHYIMVKGSIQQE ELTILNIYAP\NTGAPRFIKQVLS DLQRDLDSHTLI\MGD\FNTPLS TLDRSRRQKVNKDTQELNSAL HQADL\IDIYRTLHP\KSTEYTF SAPHHTYSKIDHIVGSKALLSK CKRTGIITNYLSHSAIKLELRI KNLTQSR
19915	50283	A	20031	2	178	
19916	50284	C	20032	88	228	

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19917	50285	A	20033	3	382	VDRTIMSDSLVVCEVDPELTEK LRKFRFRKETDNAAIIMKVDKD RQMVVLEEEFQ\FVVYSYKYV HDDGRVSYPLCFIFSSPVGCKPE QQMMYAGSKTRLVQTAELTK VQTGMWLQSVRERWCGSWV
19918	50286	A	20034	89	633	KTAE LRKEEACGQNNHALPGS LRQSDSLVVCEVDPELTEKLRK FRFRKETDNAAIIMKVDKD/RG QMVVLEEEF\QNISPQRELAKMG FPRRDKPR\FVVYSYKYVHD\D G\RVSYP\LCFIFPRPVGCKPE\Q QMMY\AGSKNRLV\QTAELTK GVPKSRTT*LTSLRPWL\QEKLS FLSLISGAGD
19919	50287	A	20035	78	638	WDLTWKESSADSQ\FLEKMD HSHHMGMSYMDSNSTMQPSH HHPTTSASHSHGGGDSSMMM MPMTFYFGFKNVELLFSGLVIN TAGEMAGAFVAVFLL\AMFYE GLKIARESLLRKSQVSIRYNSMP VP\GQNG\TILYGRTHKTVG\QQ\ MLSFPHLLQTVLHIIQVVISYFL MLIFMTYNGYL CIAVA
19920	50288	A	20036	1	849	MSQKMENLIGNAHISAYEIIKEF QKEQHQA GLPGTTVPCSCQVY KCSKRPERVAREGPSEDLPLP QTVRKCGQGCTLHGAGGSQGG VGARPF GIGGVEALWFLASPSY WAPLIPQCQLGKLLVVRLVQL QARRELAPMLAPGAACPMVAT ACTLVQWPD PMLTHTPLTIPHL TCSLLGGNVELLFSSLVINTAGE MAGAFVAVIILAVFYEGL\IAQE SLL*PNGTILM*THKTVGQQML SFPHLLQTVLHIIQVVISYLLMLI FMTYNGSSELLFRGERPR
19921	50289	B	20037	308	568	
19922	50290	A	20038	394	528	
19923	50291	A	20039	186	856	TWGKGDILRRPRRKMSY/SHF FVQTCRGG\HKKKHPRLLQVN\ FSEF\SKEVLQRGWRPMSCLKR KGKILKIWAKAGQGPFLERELK TLYPLPKGEDQKKKFKDPNCTP RGPPS\AFFPLLALEYPPQSKSG EHPWPVPLVDVAEENWETMW ELTLLQMDKQPIYEKKA\AKLK EKYEKDIACISSLKGPDAKK RELSRPEKSKKKKEEEDEEDE EDEEEDEDE*DEEDEEEDEDE

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19924	50292	A	20040	1	413	GAMRGDRGRGRGGRFGSRGGP GGGFRPFVPHIPDFYLCMAFP RVKPAPDETSFSEALLKRNQDL APNSAEQASILSLVTKINNGNE KL\VGSPGTLKAHIEKFTRGIPY KRGTVSRGHNVADLGGKLKIL\ PPLEAV
19925	50293	A	20041	70	1451	GAMRGDRGRGRGGRFGSRGGP GGGFKPFVPHIPSDFYLCMAF\ PRVKPAPDETSFS*GLA*RRNQ D\LAPNSAEQ\ASILSLVTKINN V\IDNLTCGSQGHFEVAKLEEV\ RQVGDPPIKRGTMITGHNV*/L WVVIPQEFWQRLEA\VACPGGN KVVESLR/SHQDPSESFKPCLTN E\TGFEISSDATVKILITT\VPAN LRKLDPELHLDIKVLQSALAAI RHARWFEENASQSTVKVLIRLL KDLRIRFPG\FEPLTPW\ILDLLG\ HY\AVMNNPTRQPLGLKRWHN RALAWQISGLAGTVSCQG\SVG YSIDPCESWQL*ELHTVMTLEQ Q\DMV\CYTAQ\TFVRILPHGGF RKILG\QEVDA SYLASEISTWD GVIVTPFRKRLYEK\PEK\KEG EEEEENTEEPTSRGRRK\HGN\ SGVTIPLPLLFPNPRGKTGALSC PAYWALHGDRHFPWDREDSRK
19926	50294	A	20042	253	379	
19927	50295	A	20043	284	1062	APRNYLPQRATASVRRQQISFS NEHTPHQSLHEIPNVRQRHSGL MKLNTMGAMTTSTTSAVANH* PSNKRTPLVSV/MQSASPEQRQ AVRERMQTNPKIQQRREAARE RIQSASPEQRQAVREKMQTNPQ NQQRDAARERIQSASPEQRQV FKEKVQQRPLNQQRDNARQR VQSASPEQRQVFREKVQESRPQ RLNDSNHTVRLNNEQRSVCE RLSERGARRLESLYGRHMQAN PEPPKKNNDKSKKISRKPLAAK

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19928	50296	A	20044	1	2269	MSPDIPQVSPEVGLYPVANHSSI VVPTCHSLSEEDTEAQRNHELD TVKALREDAQVLKIPNQSPKDT LVTALQLAQKGTKAAAIRLGA KVGQKQSRQAKSSPALVVPGL LSFPRARFFEWQSPGLPNTAAM ENGTGPYGEERPREVQETTVTE GAAKIAFPSANEVFNPNVQEFN RDLTCAVITEFARIQLGAKGIQI KVPGEKDTQKVVDLSEEEEE KVELKESENLASGDQPRTAAY GEICEEGLHVLEGLAASGLRSIR FALEVPGLRSVVANDASTRAY DLIRRNVLNDVAHLVQPSQA DARMLMYQHQRVSRFDVIDL DPYGSPATFLDAAVQAVSEGG LLCVTCTDMAVLAGNSGETCY SKYGAMALKSRACHEMALRIV LHSLDLRANCYQRFVVPLLSIS ADFYVRVFRVFTGQAKVKAS ASKQALVFQCVGCGAFHLQRL GKASGVPSGRAKFSACGPPVT PECEHCGQRHQLGGPMWAEPI HDLDFVGRVLEAVSANPGRFH TSERIRGVLSVITEELPDVPLYY TLDQLSSTIHCNTPSLLQLRSAL LHADFRVSLSHACKNAVKTDA PASALWDIMRCWEKECPVKRE RLSETSPAFRILSVEPRLQANFT IREDANPSSRQRLKRFQANP EANWGP RP SRP G G K A A D E A MEER\RRLLQNK RKEPPEDVA
19929	50297	A	20045	1578	2356	PLRRWACNHKLQRQNAHQLSSTI HCNTPSLLQLRSALLHADFRV SLSHACKNAVKTDA PASALW DIMRCWEKECPVKRERLSETSP AFRILSVEPRLQANFTIREDANP SSRQRLKRFQANPEANWGPR PRARP/GVSGGKVGVLGSLQGGK G* RADGVPPTPSPSHRGKAADE AMEERRRLLQNK RKEPPEDVA QRAARLKTFCKRKEGTCQRG DQCCYSHSPPTPRVSADAAPDC PETSNTPPGPAAAGPGID

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19930	50298	A	20046	1	791	MGPSSIIHSSQHATAPQILPKVR AGPRSSGCRISECRREEKPPKGR RGLKDATRPGVNWGPDGGVQS GAGAQPWSLTPLPPGSVSPAGR AQRSMRAAAAQERSPGRRRL GKEPLIRESWTRSAPWRCLSQD AGRAGSQVCGSSPQTRGAAAE KVAVTGAKSCSGRGKKAAR AKSRGGGGRKTQKAAAKSRG C/AGQRSPKSRGSRG*IPRGRGQ KAAVAGAESNGGGGKKSRRRR HKAATRSSGKPNWRQKAAS AGAK
19931	50299	C	20047	76	327	
19932	50300	A	20048	336	814	ANFSLEDPSCSPPPRLLAGSFVD SPQSLSCMRKNPLLGS GSGPLS PTYIL*ATTPHLLPQPLITTSPSS SPPPSPPLPPPPSFSSSYSSSFF E/NRVPLCCPCFGSAIRKPSPSVS TKARPQGETGRSLALLFLPQRP SSSLHRSDTLYRDCVHRI
19933	50301	A	20049	1	310	
19934	50302	A	20050	1	1482	
19935	50303	A	20051	3	2455	
19936	50304	A	20052	3	1441	

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19937	50305	A	20053	1	2322	MAEGKGEAGTFFTGGQDRLLF VFFIITIVVGLFRCSVFSSSSSSSS LSSSSSSSSSSSLSSSFLHLFFIFIF VFFVFIFVFIFVFVFAFFFIFFVF VVFFVFFFVLLVEILMRPTISIR GQCLKISDEMCKDCLSILYNTC VCTEGVTKRLAEKNDFVIFLFT LMTSKKTFLQTATLIEDILGVK KEMIRLDEVNLSLVSNFDQQ QLANFCRILAVTISEMDTGND KHTLLAKNAQQKKSLSLGPSA AEINQAALLSIPGFVERLCKLAT RKVSESTGTASFLQELEEWT WLDNALVLDALMRVANESEH NQASIVFPPPGASEENGLAHTS ARTQLPQSMKIMHEIMYKLEV LYVLCVLLMGRQRNQVHRMIA EFKLIPGLNLFDKLIWRKHS ASALVLHGHNH\CDSPDITL\ KIQFLRLQLQSFSDHHENKYLL NNQELNELSAISLKANIPVEAV LNTDRSLVCDGKRGLLTRLLQ VMKKEPAESSFRFWQARAVEE FPSRGTTSYADQMFLKR\GLL EHILYCIVDS\ECKSRDVLQSYF DL\LGEL\MKFNVD\AFKRFNKYI NTDAKFQVFLK\Q\INSSLVDSN MLVRCVTLSLDRFENQVDMKV AEVLSECRLAYISQ\VPTQMSF LFRLINIIHVQTLTQENVSCNT\ SLVILML\ARRKERLPL\YLRL\ QR\MEHSKKYPGL\LNFNHNL

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19938	50306	A	20054	237	2033	TSPTPLPLPATMPKTISVRVTM DAEL\EFAIQPNTTGKQLFDQV VKTIWLEGKFGFFGLQNQDT\K GFST\WLKLNKVD*PRNVRKE \SPLLFK\FRAKFYP\EDVSEELIQ DITQRLF\FLQVKEGILNDDIYCP \PETA VLLASYAVQSKYGDFNK EVHKS GYLAGDKLLPQRVLEQ HKLNRD\QWEERIQVWHEEHR GML/RGEDAVLEISERLLQDLE MYGVNYFSI\KNKKGSELWLG VDALGLNIYEQNDRLTPKIGFP W\SEIRNISFNDKKF\VIKPIDKK APDFV FYAPRLRINKRILALCM GNHELYMRRRKPD TIEVQQMK AQAREEKHQKQMERAMLENE RKKREMAEKEKEKIEREKEEL MERLKQIEEQTKKAQQEL\EEQ TPRAPGTLSQERKRAQSEAEKL AKERQEAEAEAKEALLQASRDQ KKTQEQLALEMAELTARISQLE MARQKKESEAVEWQQKAQMV QEDLEKTRAE LKTAMSTPHVA EPAENEQDEQDENGAEASADL RA*S\MAKDRSEEERTTE\AEKN ERVQKHLKALTSELANARDES KKTANDMIHAENMRLGRDKY KTLRQIRQGNTKQRIDEFESM

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19939	50307	A	20055	2	2230	PRVRLGAHGCPPGPRRCGCCW ANGLRSSERCVLRLPCVQSA TRGLRCGCDSAANLDTMAKPP QGAGDRGSIHDFPGFDPNQDAE ALYTAMKGFSGDKEAILDIITSR SNRQRQEGCHSYK\SLY GK\DLI ADLK\YELTGKF\ERLIVRLMRP PAYCDAKEIK\DAISG\GTDEK\ CLIEILASRTNEQMHQLVKRITK MPTERDLEADIIGDTS GHFQKM LVVLLQGTREDDVVS EDLVQ QDVQDLYEAGELK WGTDEAQF IYILGNRSKQHLRLVFDEYLKT TGKPIEASIRGELSGDFEKLMLA VVKCIRSTPEYFAERLFKAMKG LG\TRDNTLIRIMVSRSELDMLD IREIFRTKY*/EKS LYSMD/IKND TSG/QSYKKTLLKLSGGDDDA DQFFPKAAQVAYQMWELSAV ARVELKGTV\RPANDF\NPADAD AKALR\KAMKGLGTDEDTIIDII THRSNVQRQQIRQTFKSHFGRD LMTDLKSEISGDLARLILGLMM PPAHYDAKQLKKAMEGAGTDE KALIE\ILATRTNAEIRAINAEYK \EDYHKSLEDALSSDTSGHFRR LISLATGHREEGGENLDQARED AQVAAEILEIADTPSGDKTSLET RFMTILCTR\SYPHVRRVIEQFIR LTNYDVEHTIKK\EM\SGDIRDA F\VAIVQ\SAKTKPLFFPDK\LYK SMKG\AGTDEKTLTRIM\VSR\G
19940	50308	A	20056	3	368	
19941	50309	A	20057	1	936	MMKCEEQKEEEEETVRMFSA SQPLDPDGTLFRLRFTAMVWW AITFPVFGFFFCIIWSLVFHF EYTVATDCGVSASSPAPGSGP PNYLPSVSSAIGGEVPQRYV WRFCIGLHSAPRFLVAFAYW NHYLSCTSPCSCYRPLCRLN FGLNVVENLALLVLTYS SSSEDFTIHENAFIVFIAS SLGHMLLTCLWRLTKKHT VSQEVRSIPSGGSKAAQKKI KDICPQDSGNGEDRKSYSW KQRLFIINFISFFSALAVY FRHNMCEAGVYTIFAILEY TVVLTNMAFHMTAWWDFG NKELLITSQPE

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19942	50310	A	20058	119	930	ESLFPSLAFLSPSKPLFSHPPSFH LSNKQDTSPCSCVLSFPFLRTE ASIGVPGIKMDGGNAQEHGHFL RLPQVPNYLPSVSSAIAREVPQR YVWRFICIGLHSAPRFLVAFAY WNHYLSCTSPCSCYRPLCRLNF GLNVVENLALLVLTIVSSSEDF /TWVPG*GRSGEVFPEGTGLPLP HSDLPTS WCGHSLQCGSQSSFP PAIHENAFIVFIASSLGHMMLTCL LWRLTKKHTVSQEVRSIPSGGS KAAQKKIKDICPDQSGNGEVGT EF
19943	50311	A	20059	3	206	
19944	50312	B	20060	80	304	
19945	50313	A	20061	1	2111	MAATGTAAAAATGRLLLLLV GLTAPALALAGYIEALANAGT GFAVAEPQIAMFCGKLNMHVN IQTGKWEPTGTGKSCFETKEE VLQYQCQEMYPELQITNVMEAN QRVSIDNWCRRDKKQCKSRFV TPFKCLVGEFVSDVLLVPEKCQ FFHKERMEVCENHQHWHTVV KEACLTQGMTLYSYGMMLPCG VDQFHGTEYVCCPQTKIIGSVS KEEEEEEEEEEEEEDEEDYDV YKSEFPTEADLEDFTEAAVDED DEDEEEGEEVVEDRDYYYDTF KGDDYNEENPTEPGSDGTMSD KEITHDVKVPPTPLPTNDVDVY FETSADDNEHARFQKAKEQLEI RHRNRMDRVKKEWEEAELQA KNLPKAERQTLIQHFQAMVKA LEKEAASEKQQLVETHLARVE AMLNDRRRMALENYLAALQS DPPRPHRILQALRRYVRAENKD RLHTIRHYQHVLAVDPEKAA\Q MK\SQVMTHL\HVIEERRNQSL LLYKVPYVA\QEM\QEEIDDVLQ EQRADMDQFTASISE\TPVDVR V\SSESEEEIPP\FHPFHPFPAPT* ERRILGVGRAGWGGLIGAEK VINSK\NKVDE\NMVH*TRLLD VKEMIFNAERVGGLEEEERSV GPLREDFSLSSSALIGLLVIAVA IATVIVISLVMLRKRQYGTISH GIVE/VVDPMLTPEERHLNKMQ

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19946	50314	A	20062	61	2634	SQPAEGKWSTGNAATATAGVL LLPAACGA*TAPALAL\AGYIEA LAANAGTGFAVAEPSNSPMFC GKLNMPCETFQTGK\WEP\DPN QAPKSCF*NQKEEVSSSYF\QEM YPRAYRSQNVMEAKPAGLRID N\WC\RRDKKQ\CKSRFCYTFSS CLVG*IL*SDVPAKFPEKVPSPFF HK\ERMEVCE\NHQ\HW\HTVSQ KKAMS*PPGK*PLIANGMPASP CGGRTSFHGTE\YVC*PSAQRLL GSCV/TKEEEEEEE\KEEEEEDE KGD\YAVYKGNFLL*ADLEDST EA\AVDEDEDEDEREGEDVVEDR EYYYDTFKGDDYNEENPN\DPG SAATMSD\KEITHD\VKAVCSQE A\MTGPCRAVMPLWYFYLSKG KCVRFIYGGCGGNRNNF*SEDY CMAVCKAMIPPTPLSTNDDVDF F*TSKDDNEHARFHKAKEHVVI RPRNRMDRLK*EW*YAQL\QLK \NLPKAERQ\TLIQHF\QA\MVKA LEKEAA\SEKQQLVET/HTLARV EAMLND\RCLMALENY\LAALQ SDP\PRPHR\ILQALRRYVRAEN KDRLHTIRHYQHVLAVDPEKA AQMKSQVM\THL\HVIEERRNQ SLSLLYKVPYVAQEIQEEIDELL QEQRADMDQ\FTASISE\TPVDV \RVS\SEGRGEIPPFHPFHPFALP ENEDTQPV\LYHPMKKGSGVGE QDGLLIVAEK\VINSK\NKVDE
19947	50315	A	20063	734	1049	CCPPGGTGRCLGTCGYHN/CGC SI*SSDLPQR/CCVSGRR*TFWM VWSACVCASGCLPGGNRCCCP VLSPERIAVLGGLLPRKPPCRV VGERRSVLTLQATSQCPR
19948	50316	A	20064	6	1174	
19949	50317	A	20065	285	567	SRRRSSSYERSGSGRSPSPY RRRSSPFLSKRSLRSPLSRKS MKSRSRSPAYSRHSSSHSKKKR SSRSRHSSISPVRLPLNSSLGAE LSRKKKRAAAAAAAKMDGK ESSYERSGSGRSPSPYGRRRS SSPFLSKRSLRSPLSRKSMKS RSRSPAYSRHSSSHSKKKRSSSR SRHSSISPVRLPLNSSLGAELSR KKKRAAAAAAAKMDGKESK GSPVFLPRKENSSEAKDSGLE SKKLPRSV

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19950	50318	A	20066	214	805	LGLQAANDLHLEYAMGKRYFC DYCDRSFQDNLHNRKKHLNGL QHLKAKKVWYDMFRDAAAIL LDEQNKRPCRKFL\TGQRDFG SN\CRFS\HMSER\DLKEL\SIQVE EGRGEPREWLL\DAPELP\EGHL GGLGLEERRAKRLELQPQVSQ G*NPFRTT/VSFQ*PRRVGPSS GSLPPNSCGHPPPGGLALLQPR V\QWG
19951	50319	A	20067	2	418	
19952	50320	A	20068	1	1134	ATTARRRGAPGTPLAAEGNGL SARVDEGVVEFFSKRLIQDRL WAPEEDPATEGGATVPVRTLRLK KLGTLFAFKKPRSTRGPRTDLE TSPGAAPRTRKTTFGDLLRPPT RPSRGEELGGAEGDTSSPDAG RSRPPTQEIARPTR*YCCLPRRR QRWVPDPTSGGPWSGEKQNL HPLNSGYK*CCRG*ASAEAAGV PKARGSKAKMARSRLAQMVL TLWTVPRRPLPSRSPAPT/PVS ADPSCRPGPGSQGPESATWKT GQQLNAELSRGWGQQDGP PSPGQSPSPCARTSPSPDSLGLPED PCLGPRNEERPLRLQRSPLVKR RPKLEAPPSPSLGSGLGTEPLPP QPTESPSPERSPPSPATDQRGGG
19953	50321	A	20069	3	206	
19954	50322	A	20070	3	349	
19955	50323	A	20071	226	610	
19956	50324	B	20072	18	1306	

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19957	50325	A	20073	3	1665	LRPQGREGGDWEGGRSPFSLPY GSLRGRVVSTAQFRVPMPSASA SRKSQEKPREIMDAAEDYAKER YGISSMIQSQEKPDRLVLRVRD LTIQKADEVVWVRARVHTSRA KKGKQCFLLRQQQFNQALVA VGDHASKQMVKFAANINKESI VDVEGVVRKVNQKIGSCTQQD VELHVQ\KIYVISL\AEPRLPLQL DDA VRPEAEGEEEGRATVNQD TRLNDRVIDLRTSTSQAVFRL\Q SGICHPLRETLINKGFVEIQTPKI ISAASEGGANVFTVSYFKNNA\ YLAQSPQLYKQMCICADFEKVF SIGPVFRAEDSNTHRHLTEFVG LDIEMAFNYHYHEVMEEIADT M\VQIFKGLQER\FQTEFQTVNK QFPCEAISNFWPTLRLEYCEAL AMLRGKLESEMG\DEDDLSTPN EK\LLG\HLVKEYDT\DFYILD KYP IGL*RPF/HL YPCP*PPRNPQ QVPTLTNMFHEREKKYLSGAQ\ RIH\DPQL\ALTERALH\HG\NLEK IKAYIDSFRFGSPSP/HAGGGIGI/ ENRVTMLFLGLHNVRQTSHP
19958	50326	A	20074	3	424	
19959	50327	A	20075	178	859	
19960	50328	C	20076	304	592	

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19961	50329	A	20077	1381	2936	PTNPRPSPGLARWAESYEAKCE RRQEIRESRRCRPNVTTTCRQVG KTLRIQQREQLQRARLQQFFRR RNLELEEKGKAQHPQAREQGP SRRPGQVTVLKEPLSCARRISSP REQVGRVKGHTAVCSGTLGSGQ GGWV/R/RPPSLHRACRES*DNC PSSLALTLSHPIHSSLERTQ*I/SH ALTFWNSMIYPRSSRLILPQASD SSW/KGKGGMKFFLNKAWASMC SHLIFLSTGKHSEGYFHLRNLEL NEKNVFEP\KAKESLQKVLEEK MNAEQQLQSTQVWGCHIDMG LGTPGSLGNKGSQQLQRTLGTQH RELESQLHVLQSKLQVPGTGGG EGRQGMGRRDGDERSCSAKIE CLQGDRDLCSLDTQDLQGTL GGLECMAMAK*AKKKETEF QILKVHRVFLGSWPTKGTQVW SPKSPNEVEPEGTGKEKDWDL RDQLQKKTLQLQAKEKEVRG* PEIVRAHLRNSRETWEAVKNCR EELNQSQQLPPRVGSLPIKP WMMGRFLL*PSFAHKDNLMI
19962	50330	B	20078	1	1173	
19963	50331	A	20079	16	1584	SSRFLFSLGWLWEAPEVGTSG WLQRRPGLGAG\GGQEKQFL PALLSFFIYNPRFWPREGEEENK ILFYHPNEVEKNEKIRNVGLCE AIVQFTRTFSPSKPAKSLHTQKN RQFFN\EPENF\WMVMVVRCP IEKQSKDGKPVIEY\QEEELLDK VYSSVLRQCYSMYKLFNGTFPE SHGRRR\VKLLKERLEKFFHRY LQTLHLQSCDLLDIFGGISFFPL DKMTYLKIQSFINRMEESLNIV KYTAFLYNDQLIWSGLEQDDM RILYKYLTTSLFPRH\EPELAGR DSPIRAEMPGNLQHYGRFLTGP LNLNDPDAKCR\FPKIFVNTDDT YEELHLIVYKAMSAAVCFMID ASIHPTL\DFCRRTGTASLGPQL HSGWASGHLVEQFNINKGDVP GLRK\EPQFKFIYFNHNMNLVEK STVHIEENAPACPLTSVHPDLAM KIPR*PSNSDLYPRV\DEDEGDH C*RALSDYWVVVGK\KSDPAGS LYVIFEIQKNAKP*LKVK*KRSK KPLCNASSNNILPSLD

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19964	50332	A	20080	85	420	LSNLFLHATNDGALTSTTIPHP MRQPTS/S/GDGSEIFLHTELKLL EPPHAWPQSCPPRL*MTRQQLL PMTFLLKAHSKAGIESPGLNPR PGFSLHPVLPAASSAAFLPSFR
19965	50333	A	20081	220	563	
19966	50334	B	20082	1	576	
19967	50335	A	20083	111	3586	TMFGLKPPLYFLPGSSLSESSP VSSPATNHSSPASTPKRVPMGPI IVPPGGHVPSTPPVVTIAPTKT VNGVWRSESRQDAGPRSSSGG RERLIVEPPLPQEKAGGPAIPSH LLSTPYPFGLSPSSVVQDSRFPP LNLQRPVHHVPPSTVTEDYLR SFRPYHTTDDLRMSSLPLGLD PATAAAYYHPSYLAPHFPHPA FRMDDSYCLSALRSPFYPIPTPG SLPPLHPSAMHLHLSGVRYPPE LSHSSLAA
19968	50336	A	20084	576	1261	GDDLCSVGAPCRSTWACSTPLR CVRRSREFPGLPHAAGAARGFR LPAGRPVPARPGAAAAAARAAA GEAHRPLPCGRRPGPVRAAVP PRPRPPRRGLRGRREGPAAPAG PGGPSLLCASAGRHPGGLRAG QGLRDSAGEAGGEPAP/AGPRP EASP*RSSLCENTCTEAGLGPRR AAGDLGSPWLTSGLLWGSFFLF FLFFFVILRQSLLLSPKTEVAVA QLMSHCSL
19969	50337	A	20085	248	356	EGEEEGDEENDPD\MTQRRIT QQSASSSEAGCMWP
19970	50338	A	20086	1043	1191	NFYFSCKNKNKANKQQITWK\ KGLSNGCKFILSGGRQKGRITLP QREMA

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19971	50339	A	20087	287	1401	CQNPQIPCSPFKKRLDG/LWVET PT\GYIESLP\RVVKRR\VNALKN LQVKCAQIEAKFFE/EKVHGFFE RKYAVL\YQPLFD\KRF\EIINAI YEPTE/EKECEWETR*RKDEDF GGNWKEKGQIEDEKKDE\EKE DPKG/IFPEFWLTVFK\NVDLLS DMVQEH\DEPILKH\LKDIKVKF SDA\GQPMSFVLEFHF\EPNE\YF TNEVL\TRTYRMRSEP/DTRLIL DPFSFDGPEIMGCTGCQIDWKK GKNVTLKTY*GGGRKHKGRGT \RTVTKTVS\NDSFSNFFPP\PE IPE/DVGDLDLDDAGSLFLAGRLS EIWFTFYRERIIPRSSVNILPGEA\ IEDDDDDYDEEGEEADEEGEEE GDEENDPRLLTQR\RIKTQQSAS
19972	50340	A	20088	1	350	DNLEAEA VAPCTAAARAVAPD LFVFAA*PESVSAGGPQQPCRSP IVKPGLPSPRPSSCTQPWLTHSW AEDVDLRVNFAMNVGKARGFF KKGDVVIVLTGWRPGSGFTNT MRVVPVP
19973	50341	A	20089	1	399	
19974	50342	A	20090	1	394	
19975	50343	B	20091	82	351	
19976	50344	A	20092	3	789	CGTSRMCHTTEELA/SDPIL/YRP LAVALDTKEPEI/RNGLIKSGGT SEVELKKGATLKFTRNNAY/ME KCDENILWLDYKNICKVVEVG SKIYVDDGLISLQVKQKGADFL VTEVENGGSLGSKKGVNLPGA AVDLPAVSEKDIQDLKFGVEQD VDMVFASFIRKASDVHEVRKV LGEKGKNIKIISKIENHEGVRRF DEILEALGHWA VVPLKPTLALA LTCFSSSLGLSSLHLSPPSTQLSC SKHSTLHLPSPPTAAPPGLLL
19977	50345	A	20093	3	424	
19978	50346	A	20094	2	173	IYHLQLFEELR/RLAPITSDPTEA TAVGAVEASFKCCSGAIIIVLTK SGRSAHQQELGP
19979	50347	B	20095	1	1362	

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19980	50348	A	20096	1	1982	QRDNLEAEAVAPCTAAARAVA PDLLRLCSVRPSRSAPEDRQQP CLFSHSEAGTAFIQTQQLHAA\ MADTF/LWEHMCRLADIDSPFIT ARNTG\IIC\TIGPLPDQVETLK EDD*SLGMKCGSVLNFSSWEL HGVTMRETIQGMWRTANGKA FAFLT PFLLPGLAVGFRTLKGP EIPNWGSSKNGT\AEVGA*RK GATLKFTL\DNAYM\EK\DENI L\WLDYKNICKV\VEVG\SKIYV DDGLISLQGKQK\GADFLVTEV ENGGS LGI\MKGVNLP\GAADV FACLCRRKDIQDLKFG\VEIQDV DMVF\ASFIPQSILMFHEVRKVL G\EKGDHQLSSKIRESMRGF RRFD\EIL\EASDGI/LWVARG*F *ALRIPAEK\VF\LAQKMIDLDRF NRA\GKP\VICATQMLES MIKKP RPTRA\EGSD\VAN\AVLDWKPT CIMLSWEKQPKGDYPLAEAV\R MQHL\IAREARWLPSYH\LQLF\ EELRPPGAQLTSDPTEATAVG\ VEASFCCC\SGAII\VLTKSGKVC SPRLARYRPRAPIIAVTRNSPGK LVRAHL\YRGIFPG\VCQGPDSR RAWA*DIG\LRVKLCHGMFGK ARGFFQERGDVVHCA*PEWRP WLPAPPNNMRVVPCCRDGPRG PSSSRPCSHPPFPKPIFRPSNGL VELHSGAVNVATG

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19981	50349	A	20097	215	1893	TVTFSQCRFGKMLPLEKAFASP QELPSPAGSAHAGVSSRSSRK NPRPSLRGPLLTLFSRLRFREF VY\QEAAGPHQTLARLHELCRQ WLMPEARSKEQML/ESLLVLEQ FLGILPDKVRPWVVAQYPESCR SSLLVEGLADVLEEPGPSTVDR DAAGLPCGLILNS*RWSVREAH GPSAATTRAREPQPGPWSWGD PGTF*DTLAFSGPPVSGTEEGQ/ MKQRPKRTALP/HTEQVGGHE QVGGRSQ/RTTNVSEAEVLSRG PSAPGGVGPPGPC\EENLKSRYK LLLWEGGRRQESAGCACEEAA PAG\GCLSCLRRRPLGTPLPIPRR A\H*GGGRAAWEGPGPAGPPGR GVRLCHRIAEAVRHPAACP/ET GARRNWEPRGRTPRMGTGRAS RA/CSSSGDSAGLEAGQGPAD EPGLSRGKPYACGECGEAFW LSHLMHHSSHGGRKRYACQG CWKTFHFSLALAEHQKTHG\KE KSYALGGARGPQPSTREAQAG ARAGGPESVEGRGSPRTPRGA EVSRCVFPFRRGRFAGRESQTR HWAFPRPWVAASCGVCGRPLP
19982	50350	A	20098	5	372	
19983	50351	A	20099	1	129	
19984	50352	A	20100	1	627	
19985	50353	A	20101	1	441	
19986	50354	B	20102	1	477	
19987	50355	A	20103	2007	2156	

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19988	50356	A	20104	1	717	MKLRTLAVSVTALKVARLGSA PSDVQMCLEFLPSDSGAQLASP SGSRTGAAGGAACQSGAVRSY SSALGWSMGLGAVEQGVVLV GDARAAQEPMEWMGGSGMAG CRSRALHRGKAAKARREIEHSA GRKGLFGSARLIPATAMAPRSR LLSLGRRGNFRSRVLRKSRPL EEAARRWRDCPTGFGALVAGA GSGRAPGVPPKRLPARTKAQVS RETRGSGEVTAQGGKGPRGLW ILLWGFYNLLPTTSHAESYPERL IQKVVSEKIALALARYLHLFPFG LLGGNKTIVYSWEALRFHHQLT PSVITNTVIKVYEEPKLSQQKSR TLDVSTDEEDKIHHSSESCKDDQ GLSSDSSSSLGEKELSSTVKIPD AAFIQAARRKRELARAQDDYIS LDVQHTSSISGMKRESEDDPEIS RNEETSEESQEDEKQDTWEQQ QMRKAVKIIERDIDLSCGNGS SKVKKFDTSISFPPVNLEIHKQL NTRLTLLQETHRSHLREYEKYV QDVKSSKSTIQNLESSNQALN CKFYKSMKIYVENLIDCLNEKII NIQEIESSMHALLLKQAMTFMK RRQDELKHESTYLQQLSRKDET STSGNFSVDEKTQWILEEIESRR TKRRQARVLSGNCNHQEGTSS DDELPSAEMIDFQKSQGDILQK QKKVFEEVQDDFCNIQNILLKF QQWREKFPDSYYEAFISLC*RQ
19989	50357	A	20105	154	744	SQRNLCLGRVWYILFFLFAFLQ TLELVSHERRGRTGITNA*VSNS PRRELGFHVL*R*QFLLLFLFSH RLRSPAGFT*WIPHRGCRWSCL PVLRLHALAFLSPWVVDGTGRR GAGGGARRGGSGHTGAHGVG GRLRHGRLQVPSPLRARSFLLS CTLSCQLDSPCLTCSQGHQYKY QHSDKGKRLTIVTKSFDFIPS
19990	50358	B	20106	1	531	
19991	50359	C	20107	99	323	
19992	50360	A	20108	305	658	
19993	50361	B	20109	79	936	

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19994	50362	A	20110	381	1169	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPPAPRRPVPST TQGLRSASARHGTGRQLHLQP WCGIHVWKLGLLSLVGSQHL RGQGSRAAAALTHMHS/PHAC THAHTRAELRLPPPPRPLPPPL SPPPLRLCCLRSLFPCPLTESAA KAGSKKFHSVQEIPSPAVCELG VGTVLHIDPEKWRAGRENVET GGKRTGSGKDSTGRGWGQTD YGLGKKERTEEASRSCICLVCV SMRRDALCGQSVGSHFCQWSL
19995	50363	A	20111	3	4804	KRLNIQKTLEVAFSEAVWMQ PSVLLDDLDLIAGLPAPVEHE HSPDAVQSQRLAHLNDMIKE FISMGSLVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKDKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
19996	50364	A	20112	2	1844	
19997	50365	A	20113	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MVTW NGSLIPWSPCKINLTP*/PAVVL QNRRALDLLTAESGGTFLFLEE KCCCYVNQSGIITEKVKIEIQGRI
19998	50366	A	20114	1	1338	
19999	50367	B	20115	1	4935	
20000	50368	A	20116	3	421	
20001	50369	C	20117	33	571	
20002	50370	A	20118	3	323	
20003	50371	A	20119	146	809	EKCRHNCSSRVWQSLVSQSVW ATEGQYGRTKNARPVQVK\DS ASFPYQRRYPLRLEAQGLQKI VKDLKAQGLVKPFNSPCNTPI GVQKPNGQWKLVDLRIINEAI VPLYPVNPYTLLSQIPEEAE WFTVLDLKDFFCIPVHRESQF LFAFEDPSNPTSQLTWTVPQG FRNSPHLFGQALAQDLSQFSYL NTLVRLRYLDDLLAAHLETLC
20004	50372	A	20120	3	1147	
20005	50373	A	20121	2	1658	

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20006	50374	A	20122	2	211	MGIYDFSYPFGCCLKSRRKSS RGSQE*LALSPGFSGSGSIQDL TQV*CIQDSTPATLTAVGVDKM
20007	50375	B	20123	86	586	
20008	50376	A	20124	66	433	SSSRTEGARGKRQPMSP/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTLLGRGILAKAGAIH HAVLVTAAL
20009	50377	A	20125	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIHNLNIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL
20010	50378	A	20126	260	392	VEVVILPMPVPNLPSIPARITKG RMGTLLLRGLGTT*LYKSCSV
20011	50379	A	20127	1	1740	
20012	50380	A	20128	1	858	MEWEDNLPLELGRTVAKLLSD HSQTPLGIQMFLFSLSRKSPL VCLSYLFNFRFTLESEVQHLSG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTFWRPRDLQSDLKQIKI DLGKFSDNPDGYIDVLQELGQS FDLTWRDIMLLNQTLPNERS ATITAAREFGDLWYISQVVAAY AGLVSEAVKIIQGALTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLEGPVLRRLRCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
20013	50381	A	20129	1	6530	MWGSDDLAGAGGGGAAYTVA FTNARD CFLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAIFPVWVDQQTIFYIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSQSEKKQETSWG LTEINAFKNMQSKVVPL
20014	50382	B	20130	1231	2065	
20015	50383	A	20131	68	372	
20016	50384	A	20132	1	1461	

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20017	50385	A	20133	1	806	AVWCTHCCAPTPSGPVLPHSAA MSFLKSFPFPGPAEGLLRQQPD TEAVLNGKGLGTGLYIAESRL SWLDGSGGLGFSLEYPTISLHALS RDRSDCLGEHLYVMVNAKFEE ESKEPVADEEEEDSDDDVEPITE FRFVPSDKSAF*FPCSVEAMFTA MCECQALHPDPEDESDDDYDG EEYDVEAHEQGQGDIPTFYTYE EGLSHLTAEG\QATLERLEGML SQ\SVSS\QYNMAG\VRT\EDSIR DY\EDGDGRLDTP\TVCLGQF\ EDADV
20018	50386	A	20134	225	420	RLLGDVCGRLRPRGHEEQRPG GPGARSHSRSGPRMGRDCAGA VPRVTPK*SACAAGGRGGPAT
20019	50387	A	20135	1	687	
20020	50388	A	20136	1	2979	MLRRKKQEDWAAKGSSHACG QIPEEREKGFVGNVAVANLGLD LGSLSARRFRVVS GASRRFFE V NRETGEMFVNDRLDREELCGT LPSCVTLELVVENPLELFSVEV VIQDINDNNPAFPTQEMKLEISE AVAPGTRFPLESAHDPDVGSNS LQTYELSRNEYFALRVQTREDS TKYAEVLERALDREREPSLQL VLTALDGGTPALSASLPIHIKVL DANDNAPVFNQSLYRARVLED APSGTRVVQVLATD
20021	50389	A	20137	2	296	
20022	50390	A	20138	1187	1292	
20023	50391	A	20139	2	3250	LTSRWRPWPRPPTSASSAGWFC ASTGPWTAAPAKAPPSWASWT SRALRSSRPQTSRLWRR*PRSR AATPSSSGRGTCGIRPTSVFSTT RARSTTRPTSG**KTWTL*MTT SQ/RLHQSTDRLTAEIWKDVE GIVGLEQVSS\ATAHQVAAPV GVCSGQWDSS/HKESLSRLMAT LSNTNPSFVRCIVPNHEKRAGK LEPRLVLDQLRCNGVLEGIRICR QGFPNRILFQEFRQRYEILTPNA IPKGFMDGKQA
20024	50392	B	20140	1	1816	
20025	50393	A	20141	500	866	QVCLYPGWQHSPGRQRVSG*A HLHTAPLWICQ*SGDCDWHES* GGGM*CVRFEPPTSSPPSATS GSLLK*KEKTGLSNSPCSTSTSS GGRTPTSDRMGKTRRQYPSGA GNSSEKVGFPQVF
20026	50394	A	20142	130	226	

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20027	50395	A	20143	846	1555	GRKTPSQGRRWSSPRVFLLPGG PKPCYTYPLVGEKLLFRVLPLFP HKPSASNLEKVSHCPEGKTF RSSYLVRHQRIHTGEKPSQVPV ECGKGF**ALPT/CTAH/HYGTH TGERPYQCGQCGKSFNQSSSLI VHQRTHTEKPYQCIVCGKRF NISSQFSAHRRHTGESPYKCA VCGKIFNNSSHFAHRKTHTGE KPYRCSHCERGFTKNSALTRHQ TVHMKAVLSSQEGRDAL
20028	50396	A	20144	93	764	AQERKALKSTPSHSSFSR/WLSR IILKNGSSSSSSSSSSSSSSSLRE RERKSCENVNITRNR/LTAETI ADTIDTSNGSVFLIWTER*EWN\ WLPKPWHQYQLQARASLSEEIL NNRWEQDPEAFRQDPEDQARS/ QWLPRGGSAPV\KQRLLLHSDS VPDHAFLRTRAAGQDLPWETV RRPPDNPD LAPADFSLPCLGK LLAERRCFSLQRRVPWPENQP PHRQ
20029	50397	A	20145	1	433	
20030	50398	C	20146	312	443	
20031	50399	A	20147	1	94	
20032	50400	A	20148	2	122	DLLCPQMG*GWKLTALSLQCS LQDGIERSRAKASQCCLSI
20033	50401	C	20149	25	328	
20034	50402	C	20150	157	309	
20035	50403	B	20151	33	2996	
20036	50404	C	20152	167	274	
20037	50405	A	20153	3	130	AGAVQFQALGVPNKDTKSLEL HQPCKPR*GQDDNHRMSPVYV
20038	50406	A	20154	2	453	
20039	50407	A	20155	1	1317	
20040	50408	A	20156	1	1350	

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20041	50409	A	20157	970	2559	FPLAYSLLFPP/CSRLSRELLEV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKKGKGGKRRGRSTK KRRRRGRKEGEEDQNPPCPRLS RELLAEKEPEVLQDSLDRWYST PSVYLGLTDPQPCRSFYVLE QQRVGLAVDMDEIEKYQEVEE DQDPSCPR*L*AITDA*FCVDT WRCQVQGGKQECVQFHVFNEG* ITPTDIAVGFHCSRCLGFHFFLP LSFTHLL*VDHTSKAVWQLHGI LSKFMENY*AHSFHDHCSLCVP RALTSVL*PLHQCVTRPIR*AH FLLSLSLPLPVFLFHSFLPGPGLS QHKGNNSLPH*WICPFSF*TVPY VSHEI*LGLCGF*FPLAYSLLFPT /CSRLSRELLDEKEPEVLQDSL RCYSTPSGYLELPDLGQPYSSA VYSLEEQYLGLALDVEDRIKD QEEEDQGPCPRLSRELLEV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKKGKGGKRRGR
20042	50410	A	20158	2790	5320	LHLFCHKRQHGGISRALGSSKK PEMNILEISETLRPQLAEKKQQF RSLKEKCFLTQLAGFLANRQKK YKYECKDLIKFMLRNERQFKE EKLAELKQAEELRQYKVVVH SQERELNQLREKLREGRDASRS LYEHLQALLTPDEPKSQGQDL QEQLAEGCRLAQHLVQKLSPE NDEDEDEDVQVEEAKEVLESS APREVQKAESKVPEDSLEECA ITCSNSHGPCDSNQPHKNITF EEDEVNSTLVVDRE
20043	50411	A	20159	394	3251	GRRVCLFSEDEECKDLIKFMLR NERQFKEEKLAELKQAEELR QYKVLVHAQERELTQLREKL EGRDASR\SLNEHLQALLTPDEP DKSQGQDLQEQLAEGCRLTQH LVQKLSPENDNDDDEGVVS/QVE VAEKV\QKSSAPREMQKAEKE VPEDSLEECAITCSNSHGPYDSN QPHKTKITFEEDKVDSTLIGSS SHVEWEDAVHIIPENESDDEEE EEKGPVSPRNLQESEEEV\PQT PWHE*LSHLSIL

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20044	50412	A	20160	245	641	ILSVLIAVLCVVGKIPLKEPLCP AAGSAAEACVGGQMPVIQVPC SQQRPSMCWPRNACQSSRAL GGDESYVPKNRKSFTKHPVSSC /PSPSLGWGRG*/R/PGGPGRSPG LALGFPSFSGPAGFGQGTSSPRF
20045	50413	A	20161	7	194	RPLVESRGIPRSPAASFSTACPR NTASIPSAPSWWETAWTQTSS* APPVA*RPS*PSPESPL
20046	50414	A	20162	232	509	MGVLMHRRCTKAPAWAVATY EAPLHCQQLLGVVGVLAGDPS LLDLGGIHQQPQGLPITVLHQA EEADLVLLRAVTDAAALPVEQ HRP*GAPGLLPPPDGGQ*SGDP AAAGGYLQGPRLGPQPGHPP HPGAAGSAGEPRKWLPRRGL WCSACA*GPPSTGPGEQRGPGD SG*FISASTSASRATSACRSFAT SQTEPPTWPSLAR PQSSGLARPP APGRTAAGRD**TLPPGK
20047	50415	A	20163	3	859	SLGGNKS RPTRRCCSGSRCRCR DKSAAVSGALWRGCRESRPAP PPAPQTIPRAWPSPTAVLTHPLL AGPSRWGSSCTGAAPKPPPGRG PLRGSPALPAAPGCGGCPGWGP KPLGPWRYPPAAAGSPDHCPPS GGGSRPGAPQGGNRCRSARRT APPSCGCSEVGSL*WSPRSGPRP PGWFGWAGACGGSGGSFAASA ALAWEGPEQSQEALQPSPQRP APAAAAAGAGPRLSSPRRRAW SSPG*/HGIPWPTHASAALPAAG HRGSFSGILP*RAGKRSAMLST
20048	50416	B	20164	179	438	
20049	50417	A	20165	1	930	MESPWRQWRLRKVARSGGGR LSNKRKLHLKKKKKGERGGGG AEREKAAA AVAPGCKAGAGN AKKFVQNGPGTKESSASQVPTG PSAAGLLEFARGPLQTLFAWVS AAVSAEPRIFMIRECCCLIVPLE VLSQRSTWPCEFLISDCCASNQ QDSMGVGPSEPGAGYNLLVRH FLSPSEKCSIRVGVARFSRVLPP PLLGISAARAAGGAARQAAQL REGSRCPRLTDIPHAPSTPPEQG HSAEGAAKEPKRRSARLSAKP APAKVEAK/PKKA AAKDKSSD KQVQTKGKRGAKGKQAEVAN QETKEHLPVAV
20050	50418	A	20166	199	419	

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20051	50419	B	20167	969	1313	
20052	50420	C	20168	481	738	
20053	50421	B	20169	56	3476	
20054	50422	A	20170	1	2679	
20055	50423	A	20171	1	1467	
20056	50424	A	20172	208	379	NPCKKGVLFQF*LKIHKRQFIC ADLEFVISE*CTRYPIVAFNWK PSLLRRSTPVK
20057	50425	A	20173	1	921	
20058	50426	A	20174	197	355	
20059	50427	A	20175	1	3180	
20060	50428	A	20176	1	1309	
20061	50429	A	20177	1	2295	MFYNDVKKQQQMAALTKEKD QLSQSIVMYKSLFEASQQLNE MKCQVEEARLKEAQLRNELKI HNIDIPTTQQVPHIEALLKRKLS EQEELKKKPRRSCTLPNYTKGS GDVLGKIAHLAQIEDDRAAMVI SWHLASDMDCVVTLTTDAARR IYDETQGRQQVLPDSIYKKT PDWKRSLPHFRNGKLYFKPIGD PVFARDLLTFPDNVEHCETVFG MLLGDTHLDNLDAANHRYKEV VKITHCPTLLTRDGDR
20062	50430	A	20178	3	2550	
20063	50431	A	20179	256	3680	NRGLLFCFLFLHLHLKEHERHL ATVYVFPILSCTIYRSVLLTSSQ TIIYTHVGDREAQAALKLGRWS HPRTPNVAGAPGPPEGAGGGD AVTSQSALLTFSRTRFASGAHA GAHPVLLRNEEEKGAPALVAPI FSAEGPTCSLWWTLRPASTAGL KLPAASTRPSQRGLTADGGGP GGASVGTEEDGGGVGHRTVYL FDRREKESELGDRPLQVGERSD YAGFRAYETVKDGVTLYLLQS VNQLLLTATKERIDF
20064	50432	A	20180	8	267	RGEMPGERLKAEVFLPPSPLSPT QVVGPLHRVWS*IGNASSQRGE AQVRS*VSFSLRLEDSTPWIPGT RALRGCWLWRDFQTLQSG

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20065	50433	A	20181	1	3692	MNPIREMQVSGIALKGTMKGW TELPKSPVWTQGNKGRNYFTN LALSLLFEDDTKLNPYAGGDAI RVRISVGPFKGERFTVPGLASEC GKNSFLRFPSNSRRKQLCGRVH GSFLWFSMMSQSMGGDNLSSL DTNEAEIEPENMREKFFRSLAR LLENKSNNTKIFSKAKYCQLIK EVKEAKAKAKKESVDYRRLAR FDVILVQGNEKLIEAVNGETDK IRYYLHSEDLFDILHNTHLSIGH GGRTRMEKELQAKYK
20066	50434	A	20182	24	131	PVHKRWS*NDECYRHCTV***Q PGSEENNPALENR
20067	50435	C	20183	99	281	
20068	50436	A	20184	1	4200	MVILKDFMKFEMNSEEGDFLR TCDFFFLRHLVAVKQLAHVKV DRFFPRRQSLAESRTAGIRLQTN VQKMVSSFTTSRDKQTSPSSYS VSFIPEFHFLGPPTHCPQTAVSQ CDLLFQLHSPAELFPARTLPG GPRSPHLRVPAAPLQHDPRH TGPPPLPTANRGATPPLPLGPGA LERSGRLGELNSASSFRLRRDN PQSPAARPRGSHGLAGIEGERT LINYYCQERYFHHVLLVASEGI KRYGSDPVFRFY
20069	50437	A	20185	1	1464	
20070	50438	A	20186	335	855	RIASMPRLPPRTQGRGSARLPSR ARPLHWHHRHTMLPPKPRRW R/RALGPAEAGMLEKLEFEDEG ECAPPAAGPALPRPGRPTGTR GDPAPHLRRCPTASCVLKPRG RGGNRGGDAGAGELGLRGPCD LPSQNFLCFLVDVLKNGLLALQ LFSSNPTASCAESLPMRLTPVI

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20071	50439	A	20187	2	1160	SARPAASPPAGERASQLMLIAV LLLPLRRRWRRALGPAEAGML EKLEFEDEAVEDSESGVYMRF MRSHKCYDIVPTSSKLVVFDTT LQVKKAFFALVANGVRAAPLW VESKKQSFVGMLTITDFINILHR YYKSPMVQI/YMELEDHKNLET WRELYLQ\ETFKPLVNISP\D\AS LFGWLYTSLIKNIHRLPVIDPIS GNALYILTHKRILKFLQLFMSD MPKPAF\MKQNLDELGIGTYHN IAFIHPDTPIIKALNIFV/EKDRIS ALP/VLWDESGKSW*IFNSPNLN VN*ILACLEENIPNNLR*STVT\Q A\LQHRSQYFEGVVKCQLSWKF LETHRWTIRIVRAEGPSGLVV\I NEADSI VGIISLSDIL\QALIL\TP AGAKQKETETE
20072	50440	A	20188	58	205	
20073	50441	A	20189	347	1581	NPSPC/WAVFFQKDAITSKIQTF LSMLHLYN**/SSPSKENTRTVE KLYKCSVDIRKIRRFKKDGVLL RR*KPYVERNCRIFYQELGAR* D\AVASILERCPEAIV*SPTAVN TQRKLWQLVCKNEELIKLIEQ FPESFFTIKDQENQKLNQVFFQ DVGTKKCGH\CRLTAAPNCFS\I NPVEKNKQMV\EFFQESYLD\L GGSEANMKSFGLLKLFKPKPFY FV*ISPTAIKETLEFLQEPFPFA LKFLQLPIPNKGFQFQCPKKY TE*YFLL*KCLLNAQIFMDP/VS N*VLKWPCPFILFLFPVLEERM QGILLREGISIAQIR\ETPMVLELT PQIVQYRIRKLNSSGYRIKDGHL ANLNGSKKEFEANFGKIQA ALQNLRLSLNYYDELTVGEC GNRKGRGTNVNTTL
20074	50442	A	20190	3	455	
20075	50443	C	20191	72	218	
20076	50444	A	20192	3	452	LGILLVDDFVNVLSLAVYAED SEPESDGEAGIEAVGSAAEEKG GLVSDAYGEDDFSRLGGDEDG YEEEDENSRSQSEDDSETKEP EADDPKE\NSAQ*QRHPGLSKL MAQLVGLRGQKNHILNMIRDV TQQPQLSLAAHTPHTPFHLQ
20077	50445	A	20193	1	334	
20078	50446	A	20194	1	687	

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20079	50447	A	20195	1	1280	RPGCGNKMAGKKNVLSLAAY A*ISEPESDGEAGIEAVGSAAD EKGGLVSDAYGEDDFSRLGGD EDGYEEEEEDENSQRQSEDDDDSET EKPEADDPKDNTEAEKRDPQEL VASFSEVRNMSPPDEIKIPPEPP G\RCSNHLQDKIQKLYERKIKE GMDMNYIIQRKK\EFRNPSIYRE /RLIQFC\AIDELGTNYPKDMFD PHGWSSEDSYIEALAKAQKIEM GQIGKRPKKERNQKFEFCDGAP KKGIT/TRTNATSTTTTTCQAQL FADCFRRGKRQVGIRAIPTSATKP KRTPPPKPPNTLTATLPS/V VVTVTHPSASGSKDPPVISCCG APIVKERPKQVTLRGPLGLER DRAAPVTHCPVGGAHFVYFRT GTYSRCHLRGASVWHSRWKD RQHGSQALWTGSVHAPPGVCR LLKVPYSYLLASQKK
20080	50448	A	20196	1	542	MAYSAPEKSCTEGHESPH/HHT AGHSGWHGG*ALRQRGHSCPK EGTRGHPQTLAP/HHQCPQHAA GLPR/HNQLLHD/WFRHHHHRH WHHHHHHHQ*FPECQPSTSHQ ANPHHRPDLHDRQAPDSGYEG VSPKRVAEANFSLGSAPQAAQ GRSHGQSPGVHGGFFSHGSPAAS SDIMKRLPPGGLF
20081	50449	A	20197	45	171	RKTRERIGHDVICNLL*C**SS/C GCGLS/CICS*IRHSKSSRKA
20082	50450	A	20198	277	467	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGR
20083	50451	A	20199	1	1080	
20084	50452	A	20200	34	119	
20085	50453	A	20201	1798	1894	
20086	50454	A	20202	363	778	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGRSGGS GGCCSPGGCREGGRGNTKPAT RCEVICGGGSGGGGARPAAPP GPDA SRVCWFSLNTSIVFFSCPF
20087	50455	A	20203	1	360	
20088	50456	B	20204	1	3681	
20089	50457	A	20205	1	293	
20090	50458	B	20206	38	282	

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20091	50459	A	20207	1	1124	VDTVKRLLIKKLPPVLAIQLKRF DYDWERECAIKFNDYFEFREL DMEPYTVAGVAKLEGDNVNPE SQLIQQSEQSESETAGSTKYRLV GVLVHSGQASGGHYYSYIIQRN GGDGERNRWYKFDDGDVTEC KMDDDEEMKNQCFGGGEYMGE VF\DHMMKRMSYRRQKRWWN AYILFYERMDTIDQDDELIRYIS ELAITTRPHQIIMPSAIERSVRKQ NVQFMHNRMQYSMEYFQFMK KLLTCNGVYLNPPPGVAEKTQL LKLSVPATFMLVSLDEGPGPIK YQYAEKGKLYSVVSQLIRCCNV SSRMQSSINDAETA FNKI QHRF MLKILNKQIEETYIKITRAIYD KPTANIILNGQMLEALPLRNRT
20092	50460	A	20208	1	1053	
20093	50461	A	20209	1	7785	MTATTRGSPVGGNDNQGPAPD GQSQPPLQQNTSSPDSSNENS PATPPDEQGQGDAPPQLEDEEP AFPHTDLAKLDDMINRPRWV PVLPGGELEVLLEAAIDLSKKG LDVKSEACQRFRRDGLTISFTKI LTDEAVSGWKFEIHVSLAFDFK GSDLHSDACEWEERCIINNTHR LVELWCGPSCPQDWFPLELL AMALNPHCKFHIYNGTRPCESV SSSVQLPEDELFA RSPDPRSPKG WLVDLLNKFGTLN
20094	50462	A	20210	1201	9141	ADKIAKICPVSSMTATTRGSPV GGNDNQGPAPDGQSQPPLQQN QTSSPDSSNENSPATPPDEQGQ GDAPPQLEDEEP AFPHTDLAKL DDMINRPRWVVPVLPGGELEV KLEANIDLSKKG LDVKSEACQR FFRDGLTISFTKILTDEAVSGWK FEIHRCLVELCVAKLSQDWFPL LELLAMALNPHCKFHIYNGTRP CESVSSSVQLPEDELFA RSPDPR SPKGWLVDLLNKFGTLNGFQIL HDRFINGSALNVQ
20095	50463	A	20211	2	710	

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20096	50464	A	20212	1	1703	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFD SGVDFVRRR SSGLWGPQPPLFPVKNYTEDPV AFKDVAVNFTQEEWALLDISQ KNLYREVMLETFWNLT SIGKK WKDQNI EYEQNPRRNFRSVT EEKVNEIKEDSHCGETFTPVPD DRLNFQKKKASPEVKSCDSFVC EVGLGNSSSNMNIRGDTGHKA CECQEYGPKPWKSQQPKKA FR YHPSLRTQERDHTGKKPYACK ECGKNIIYHSSIQRHMMVHSGD GPYKCKFCGKA FHCLSLYLIHE RTHTG EKPYECKQCGKSFSYSA THRIHERTHIG EKPYECQECGK AFHSPRSCHRHERSHMGEKAY QCKECKGAFMCPRYVRRHERT HSRKKLYECKQCGKALSSLTSF QTHIRMHSGERPYECKTCGKG FYSAKSFQRHEKTHSGEKPYKC KQCGKAFTRS GSFYHERHTTG EKPYECKQCGKA FR SAPNLQL HGRTHTG EKPYQCKECKGA FR SASQLRIHRIHTGEKPYECKK CGKA FRYVQNFRFHERTQTHK
20097	50465	A	20213	3	2413	

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20098	50466	A	20214	1	2124	MGKNTPMIQLSPPGPFHNSEYR FPVLSVSAFLLYTCEMFQDPVA FEDVAVIFTQEEWALLDISQRK LYREVMLETFRNLTSLGKRWK DQNIIEYEHQNPRRNFRSLIEEK VNEIKDDSHCGETFTPVPDDR NFQEKKASPEVKSCSFVCGEV GLGNSSFNMNIRGDIGHKAYEY QEYGPCKPCKCQPKKAFRYRPS FRTQERDHTGEKPNACKVCGK TFISHSSVRRHVMHSGDGPY KCKFCGKAFHCLRLYLIERIH TGEKPCECKQCGKSFSYSATHR IHKRTHTEKPYEYQECGKAFH SPRSYRRHERIHMGEKAYQCKE CGKAFTCPRYVRIHERTHSRKN LYECKQCGKALSSLTSFQTHVR LHSGERPYECKICGKDFCSVNS FQRHEKIHSGEKPYKCKQCGK ALPHSSSLRYHVRTHTGEKPYE CKQCGKATHNGEKPYACECKG KPFGSAQNLRHERTQTHIMHS VERPYKCKICGRGFYSKSFQI HEKSYTGEKPYECKQCGKAFV SFTSFRYHERTHTGENPYECKQ FGKAFRSVKNLRFHKRTHTE K/PL*IHEKTHTGRKHYECKQC GKAFTSSSSFQYHERTH/S/GEK PYQCKQCAKAFISSTSFQYHER THMGEKPYECMPSGKAFISS LQYHERTHTGEKPYEYKQCGK AFRSASHLQMHGRTHTEKPY
20099	50467	A	20215	23	265	
20100	50468	A	20216	40	470	
20101	50469	A	20217	235	392	

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20102	50470	A	20218	7	1439	EGADKMATSVGHRCLGLLHGV APWRSSLHPCEMTALSQSLQPL RKLPFRAFRTDARKIHTAPART MFLLRPLPILLVTGGGYAGYRQ YEKYRERELEKLGLEIPPKLAW SLGSVALYKSVPTRLL\SRWVG RLNQVGAAHTGLRRPRFTSL\YI WTFGVNMKEARVEDLHHYRN LSEFFRRKLKPQARPVCGLS/V GEA*PFPPAGNRTFSCLPSTAPL VSSVSGRGRMTRGGGGCLLGG GDPALPGSKPLLFPQISPSDGRIL NFGQVKNCVEVEQVKGVITYSLE SFLGPRMCTEDLPFPPAASCDSE KNQLVTREGNELYHCVIYLAPG DYHCFHSPTDWTVSHRRHFPGS LMSVNPGMARWIKELFCHNER VVLTDGWKHGFFSLTAVGAT\ NWGSTRIYFDRDRNTNNPRHSK GSYNDFSFTVHTNREGVPMRK GEHLGEFNLGSTIVLIFEAPKDF NFQLKTGQKIRFGEALGSL
20103	50471	A	20219	170	1144	ARTRRLAPSPGCRRGPAVKKM RHEELTKTFQGPVVCCTPTS HVYMFKNKSGDSGDSSEESH RVVLRPRVKERHKSGVHQPPQ AGAGDVVLLQRELAQEDSLNK LALQYGCKHSE*LTMA/NVADI KKVNNFIREQDLYALKSVKIPV RNHGILMETHKELKPLLSPSSET TVTVELPEADRAGAGTGAQAG QLMGFFKGIDQDIERAVQSEIFL HESYCMDTSHQPLLPAPKTPM DGADCGIQWWNAVFIILLIGIV LPVFYLVYFKIQASGETPNSLNT TVIPNGSMAMGTVPQGAPRLA VAVPAVTSADSQFSQTTQAGS
20104	50472	A	20220	1	626	RYSTLTTRPWTQTPRTRASPHS\ PVAGALTARPSPPRPTKPSRAG VHASRRPPQDLGPIGKGSATK GPRHQKHHESITPPSRSPTEA PPGLNDDAQIPASQESVAPLWIP VTAP*AHRVLSSCEFGAAFESA GEEEGEGEVSAQAQAVQA\GTQ TRR*GATSAPCGPVPEGASVPA L*AAGAAGRAEAERPPCVPAQ AVGLSGQPLS

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20105	50473	A	20221	2492	4619	WHSWRQQGWGAHLGSSATGP GC*QGRPTCVMRPAGT/TRPGE APIGSGTGAVEMPAREPGDEKP PAPFP*QRHFVPRAHLLFGTAL RSLPELMRRAVRNPRHLSAEE SLLFSLPGSPWKGWSSWNGQA PPLAPPAQGPLLVPVLSAGPGV AGERTVPSSPRWWRPHLFLAPT APSPPPCPTVSAPGHLLGVAQK PDCHPPASQRPRRHLPFLPGEA FAE/SAANS*ISSISASFTFS*SSS WSLD\STKSSLPLHLPTLTSRV PGKFSALLSQFSASFSSHGLPSE SVAIGTCST/PGERAHSRQTCGP GSSAQS*GQEEGQCPQCRDSAG TCGRPRCSRHPAGHAGSEPRPL QRRSLHCSHTG*GAGIGHKART CGRKAPPRCPSETGHHSVG*Y* PWRQSQQPAARGRARCGRPCP GACPAMAPQTQSEEGRRAPR/T NPAVPSEPARP/STAGPRAGASV PPSPGPRGPAGPGAPSAGRERRR APGATACSGGAVESG*PSL/GSA LSAQVAPEAARAPA*GPGQAA GAREEGPAWPCRSP\GPGPSQC AALPQK/GSALRSGGRRTLGPL LSHPSFKILLAGSGGVLDNSTSS ERSRATRSSICRPV\SESWTNN NGGDTGG\SSCDFYSPGPADGL SQGHSSDHTNLLLVLSSQKRHF PA*ALVQPHPAPSPTGTEPWPP AGPRTVPRPPSASSVAPSCWWV
20106	50474	A	20222	103	538	PQLSLPLLSIRDRIIRPSKCANLT LTLTVAARHGLQSLGKVGISRR MPPPANLPSLKAENKGNPDNV NIVPKDGTGWASKQEQHEEEK TPEVPPAQPKPGVAAPPEVAPA PKSWASNKQGGQGDGIQVK*Q FQQEFPSLQAAGDQK
20107	50475	C	20223	1	569	
20108	50476	A	20224	1	1095	

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20109	50477	A	20225	1	1970	MWKGFTILDSFKNISDSWEDVR ISTLTGVWKKLIVTLMDDLEEF KTSVEEITLTQRKLFFVMESPV GPISPPQPPSVSAWNKPLTSFGS APSEGAKNQESGLEIGTDTIQ FGAPASNGNENEVVPVLSEKSA DKIPEPKEQRQKQPRAGPIKAQ KLPDLSPVDNK\EHKPGPIKER SLKNRKVKDAQQVEPEGQKEP SPATVRSTDPVTTKETKAVSEM STEIGTMISVSSAEYGTNAKESV TDYTTPSSSLPNTVATNNTKME DTLVNMMESARKAWENSPNVR EKGSPVTSTAPPIATGVSSASG PSTANYNSFSSASMPQIPVASVT PTASLSGAGTYTTSSLSTKSTTT SDPPNICKVKPQQLQTSSLPSAS HFSQLSCMPSLIAQQQNPQVY VSQSAA/ATLTTACLS*WSTAQI PAFYMDTSHLFNTQHARLAPPS LAQQQGFQPGLS\RSQPAFMQS SLSQPSVVLSGTAIHNFTVQH QELAKAQSGLAQQTSNTQPIPI LYEHQLGQASGLGGSQIDTHL LQVTVPLPASQLSLPNFGSTGQ PLIALPQTLQPPLQHTTPQAQA QSLSRPAQVSQPFRGLIPAGTQ HSMIATTGKMSEMELKAFGSGI DIKPGTPPIAGRSTTPTSSPSGL LLQVRTASPAK
20110	50478	A	20226	260	8485	VSTEMSEKSGQSTKAKDGKKY ATLS\LFNTSKGKSLETQKTTVA ARHGLQSLGKVGISR\RMPPPC* PPKFLKPE*QRANDPNVNIVPK DGTGWASKQEQHEEEK\TPEVP PA\QPKPGVAAPPEVAPAPKSW ASNKQGGQGDGIQVNSQFQQE FPSLQAAVDQEKK\EKETNDDN YGP*PSLRPPNVACWRDGGKA AGSPSSSDQDEKLPGQDESTAG TSEQNDILKVVEKRIACGPPQA KLNGQQAALASQYR
20111	50479	A	20227	330	485	RQGDVSLCCLGRS*TPGLK*F SHLDLLNCWDYRCETVHLAEI AQVSEKQI
20112	50480	C	20228	1189	1413	

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20113	50481	A	20229	1	407	MPFSLADCDSQHCLLFAVVDL GTAKATSCMSDTFDFYSSSGNS ANLKEGGKSPAPGPGKGRGA QKRKYS GPWNRKESCKKHEGV KGAEGRGGTVASVRES/REPRF KMAAFSMHPC*RLSRHRGH LA QRCFCFCR
20114	50482	A	20230	1	408	HMDLAQPSQPVDELELSVLERQ PEENTPLNGADEVPFSLDEEVPP AEANKESPWSSCNKNVGRCK LWMIITSIFLG VITVIIIIGLCLAA VTYVDEDENEILELSSNKTFIM LKIPEECVAEEELPHLLTERL**S L**HLGKWR**SST/GLHLPTTF LLQELQGLSLLASAGGTSSSKE GKTSSAPLRGVFSSGCRSSTESS SSSTGCEGWARM
20115	50483	C	20231	144	383	
20116	50484	A	20232	1	530	AKDSESRRMLRGYNPQQMSEG HRQKSEFYNRTASESNVYLSNF HYPDHSYKDQAFDTLSLDSSDS METSISACSPDNIS\SASTSNIARI EEMERLLKQAHAEKTRLESRE REMEAKKRALEEEKRRREILEK RLQEETSQRQKLIEKEVKIRERQ RAQARPLTRYLPVRKEDFDL
20117	50485	B	20233	10	543	
20118	50486	A	20234	370	556	
20119	50487	A	20235	3	3160	TELQQLGQKTADGSPGLKRALI FALNFHSSPPGKDMAAVQRTL MALGSVAVTKDDGCYRGEPS WFHRKAQQRNRRGFSEEQLRQG QNVIGLQMGSNKGASQAGMTG LSDPTPWTALHGMVYVQGNKAF VSPVRRIVVHEYYNSQTFDYDI ALLQLSIAPETLKQLIQPICIPP TGQVRVSGEKCWVTGWGRRH EADNKGSLVLQQAEEVLIDQTL CVSTYGIITSRMLCAGIMSGKR DACKKRKLGTERTPGTQAAP
20120	50488	A	20236	231	873	KKFRALGSVGPGRASGVQVA DEV\CRIF\YDMKVR\KCS\TP EE DQDKERSAVIF\CLSADKKCIIV E\EG\KEILVGDVGWNP*TDPF\R HFVG\MLP*KKIVRYAFVMDGK LLETGKFQKRKSLMFFV/WAP EL\APLKK*K*SYCKLQGMFAK KNFQGIKHECQA\NGPEDLNRA\ CIAEKL\GGSLIVAFEGCPCVDH HSVPQIEKLPMFNCYPLAI

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20121	50489	A	20237	915	1255	GHGQKPAGKKKKILAVRSGSEP AGGFQGY/RGGHGTAS/GSPGD DDSPGALWEQSPGPL*AWPGA VSEPMVCAEPVQE QSGPQLPP PRHSRSPSGDSGQPGVPAERRRI MGMADA
20122	50490	A	20238	3	227	LLMDTF/FQIVIYL/GETIAQWR KAGYQDMPEYENFKHLLQAPL DDAQEILQARFPM PVKLRIQPG NATVSDCVQNV
20123	50491	A	20239	1	642	RRDTIARNWANVQSQVRHIEQ AFDQEAAA\VL MARLG\VFEPK SKEGPDVLRWLDRQLRLCQKF GQYTKEDPTSFR LSDSFSLYPQS MFHLRRSPFLQVFNNSPDESSY YRHHFARQDLTQSLIMIPILYS YSFHGPPEPVLLDSSRFPM PRYI NTEHGGSQARFLLSKVNPSQTH NNLYAWGQETGAPILTDDVSL QVFMDHLKKLAVSSAC
20124	50492	B	20240	20	277	
20125	50493	A	20241	1	3030	

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20126	50494	A	20242	1	2677	MAEVKVKVQPPDADPVEIENRI IELCHQFPHGITDQVIQNEMPHI EAQQRAVAINRLLSMGQLDLL RSNTGLLYRIKDSQNAGKMKG SDNQEKL VYQIHEDAGNKGIWS RDIRYKSNLPLTEINKILKNLES KKLIKAVKSVALGIPAGCSVCP KCGASNHLSARFCGSCGICVKS LVKLSLDRSLALAAEPRPFSES LNIPLPRSDVGTGRDIGTQT VGL FYPSGKLLAKKEQELASQKQR QEKMSDHKPLLTAISPGRENIG ENLQVIGLVKNFLSNIPQAPAT QAKMGKWDPRQRGAQSPLIFL YVVDTCLEEDDLQALKESLQM SLSLLPPDALVGLITFGRMVQV HELSCGISKSYVFRGTKDLTA KQIQDMLGLTKPAMPMQQARP AQPQEHFASSRFLQVHKID MNLTDLLGELQRDPWPVTQ GK RPLRSTGVALSI\AVGLLEGTFP NTG\ARIMLFTGGPPTQGP GMV VGDELKIP\RSWHD\EKDNARF MKKATKHYEMLANRTAANGH CIDIYACALDQTGLLEMKCCAN LTGGYMVMGDSFNTSLFKQTF QRIFTKDFNGDFRMAFGATLDV KRVQVGERGREAKNKLWTVH AHSSWRALNTGLRSFDFIPGT V REPVKILGRRLTSDLQIRNSPLE AAVQGGVSKTVSTVSLAHAMR AHPHLLMEDLRILVIDLDPQSS
20127	50495	B	20243	453	3318	
20128	50496	A	20244	2	1367	

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20129	50497	A	20245	1	1459	MLEGKYGPPPGSFQTRRTALAR SHTNTSPSTSPAANRLNALGIGE RDASPSWLGETQDQVKRQPGL SGSRKIPRCAMTYGSLGQQA QAAGVHAPNVFVASLLCQFLQ FVYRNSMGWTGGADFSYSCQE GETKELWSSGHHLKACRAVAF SEDGQSEYWGRQPAMWWKGA VSSTMTLGTFSPELITVSKDKAI HVLDVEQQQLERRVSKAHGAP INSLLLVDENVLATGDDTGGIC LWDQRKEGPLMDMRQHEEYIA DMALDPAKKLLLTATYICSTLY SGDGCLGIFNIKRRRFELLSEPQ SGDLTSVTLMKVQLVMWGKK VACGSSEGTIYLFNWNGFGATS DRFALRAESIDCMVPVTESLLC TGSTDGVIRAVNILPNRVVGSV GQHIGEPVEELALSHCGRFLAS SGHDQRLKFWDMAQLASCGG G*LPSAQKKGRTTAGSEQQDLE HR*LLRTEARGRSLHGSQKKR RRLGMTVTEGMN
20130	50498	A	20246	221	847	RHIFSFFSGHVLAVSI.GKFIFEST LFPSEARAARRRRPVQQWPRFK ARDLRGKKKEELLKQLD\DLKV EAV\SQLRVAKVTGR\AASKLS KIR\VVVKSIARVLTVINQTQKE NLRKFYKGKKYKPL\DLR*GR HRAMRPPASNQARRENLEGPK EAGSGKGAFTRCGK*RGSR LRGRLCQ*KHKENLKTKKQQR KERLYPLRKYAVKA
20131	50499	A	20247	1	415	FFFFFECG*SFTNSFSVTIHRRIH NGEKSYECSDCGKSFNVLSSVK KHMRTHTGKKPYECNYCGKSF TSNSYLSVHTRMHN/TANVNSI TVGKAFIDLSCLR*HEQTLTRC MNHLLLCNKLPPKILWLQTKTL VISKFL

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20132	50500	A	20248	196	1768	RRSVLLPGCPVAVGVGTGWRLLSS CPQLPLCLPCSQPLSEKDTQRA ESWLMSS*KAG/YKGLVTFEDV AVEFTQEEWALLDPAQRTLRY DVMLENCRNLASLGNQVDKPR LISQLEQEDKVMTEERGILSGTC PDVENPFKAKGLTPKLHVFRKE QSRNMKMERNHLGATLNECN QCFKVFSSTKSSLTRHRKYSILGE RPYGCSECGKSYSSRSYLAVHK RIHNGVKPYECNCGKTFSSRS YLTVHKRIHNGEKPYDCSYCG KTFSNS*YLRPHLRIHTGEKPYK CNQCFREFRNQSFTRHHRVHT GEGHYVCNQCGKAFGTRSSLSS HYSIHTGEYPYEC HDCGR TFRR RSNLTQHIRTHTGEKPYTCNEC GKSFTNSFCLTIHRRIHNGEKSY ECSDCGKSFNVLSVKKHMRT HTGKKPYECNYCGKSFTIGQGD GFEIVLPPPQLQQLIKAFFLGNT HCLSDRLSVQCIHYSIRYLHLNI HYLHYSIHLYLHYSICYLHYSIM DPPQQSPHPLQHPLQNPLQ
20133	50501	A	20249	2	408	
20134	50502	A	20250	1	280	
20135	50503	A	20251	2	469	RGIREGEEFDVDLAGMEVAVG GWGRGLWLHRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFLLSNTTCQQFRDPGFR GRYPASPHTLSLPPETAHL*LLL CLPAAGVLPHTWPLLD RQGW RGHAR

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20136	50504	A	20252	1	1762	FRMAAPLVLVLVVAVTVRAAL FRSSLAEFISERVEVVSPLSSWK RVVEGLSLLDLGVSPYSGAVFH ETPLIIYLFHFLIDYAELVFMITD ALTAIALYFAIQDFNKVVFKKQ KLLLELDQYAPDVAELIRTPME MRYIPLKAALFYLLNPYITLSCV AKSTCAINNTLIAFFILTTIKGKA LKGEYKGS AFLSAIFLALATYQ SLYPLTLFVPGLLYLLQRQYIPV KMKSKAFWFSWEYAMMYVG SLVVIICLSFFLLSSWDFIPAVYG FILSVPDLTPNIG\LFWYFFAEM FEHFSLFFVCVFQINVFYTIPLA IKLKEHPIFFMFIQAVIAIFKSYP TVGDVALYMAFFPVWNHLYRF LRNIFVLTCHIVCSLLFPVLWHL WIYAGSANSNFF*GITLTFNVG QLPHELFIMVPEGGGPGALMA AIERNVDRAVPGGSAERDPIER STLHILLISDYFYAFLRREYYLT HGLYLTPQGIAPeamLVLSRP GWHRASWTLRGLVGPEAGPKL SSPELPAGECLGRRGSSPRVTSS LVPKRDPWLTDKAYGEELGA PQLGPPPCGSAHQGAPSQTGRR
20137	50505	B	20253	102	406	
20138	50506	B	20254	200	408	
20139	50507	B	20255	347	458	
20140	50508	A	20256	2	430	
20141	50509	A	20257	3	567	
20142	50510	B	20258	1	1317	
20143	50511	A	20259	928	2067	
20144	50512	A	20260	2	4498	VHELQSLSEMLKPEVLSPTVKG KLLTGIKSPRSYTPKPNPVTHVI STGIQKIWIGATVGSTEVSAV TPDGYADAVRGDRFMMMPAERR LPLSFVLDVLEGRAQHGPVLYV QKQCSNLPSELPQLLPDLESHV PWASEALVHKHHYENLYCVVS GEKHFLFHPPSDRPFIPYELYTP ATYQLTEEGTFKVVDDEAMEK VSVLFLGSREGEQKPGSEEQ QKIWGVEAAVQRLGMLEAGIL PQEGRFQALAEIADI

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20145	50513	A	20261	3	3137	DTPAWHGDANRTKAALEAARS DYLEFPPAARELCVPLAVPYLD KPPTPLHFYRDWVCPNRPCHRN ALQHWPALQKWSLPYFRATVG STKVSVAVTPDGYADAVERGI RF/M*LPVERRLPLSFVLDVLEG RAQHPGVLYVQKQCSNLPSELP QLLPDLESHVPWASEALGKMP DAVNFWLGEAV*VTFHDKDHY ENLYCVGSGEKHFLFHPPSDRP FIPYELYTPATYQLTEEGTFKVV DEEAMEKAEVSRTC
20146	50514	A	20262	164	1236	AQSRRSRDRGQAFSNHHAAEHI TCTPGSGSGSRVSSGQAARRRL SGRAGLWAAVTNPPPHPTWLE VSRSAATARAALCRRSACLLP RTPHLSAMISASRAAAARL/VG AAASRGLRAARHQIRSNQGT VGIDLGTTNSCVAVMKKNVPF KIVRASNGDAW/VEAHGKLYSP SQIGAFV/LMKMKETAD**LFLS SEPPQPGQRAGFLQSCCGAYY LYPWLRRERQSSILWSGGAAAPQ RKSGPLGRSDQPPSPHVVGGF QKRCRHRSSRLPSERLFAASYS SFIRHDKCQPCSSPSRGAAASR GLRAARHQIRSNQGTVVVGIDLG TTNSCVAVMKKNVPFKIVRAS NGDAWVRLMGNCILRVRLLEHL CDEDERDCRLIVALPEGMEEPE FDYQNDMGNSQDLERRRGCAA EPWEEGVGQSLALPLVSLCLKC RWYRSPCTQGQHPATFSGPAEG VISERSMLEHWHEEINQCKAYN EDVFSTMRNPARISSEAMAPA DIIDHSSQRPDFTSGKMLADEF GTASNIKSRVNAFQSWEPHLHY NKDSNL
20147	50515	A	20263	216	728	

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20148	50516	A	20264	1	2519	MAPSSRSGAGNTSTPGGCARAR APPGNAGVHSGTQTGAVRDTA FISPSSPGLFLSSEPPQPGQRAGF LQPSCCGAYLYLPWLRERQSSI LWSGGAAAPQRKSGPLGRSDQ PPPSPHVVGGFQKRCRHRIAQL FAVGALVCCLVLLHLSAMISAS RAAAARLVGAAASRGPTAAR HQDSWNGLSHEAFRLVSRRDY VAS\EAIKGAVVG\DLGTTNSCV AVMEGNQAK\VLENAEGAKTT PSVVAFTADGERLGGMPAKRQ AVTNPNTFYATKRLIGRRYDD PEVQKDIKNVPFKIVRASNGDA WVEAHGKLYSPSQIGAFVLMK MKETAENYLGHTAKNAVITVP AYFNDSQRQATKDAGQISGLN VLRVINEPTAAALAYGLDKSED KVIAVYDLGGGTFDISILEIQKG VFEVKSTNGDTFLGGEDFDQAL LRHIVKEFKRETGVDLTKDNM ALQRVREA AEKAKCELS SSVQT DINLPYLTMDSSGPKHLNMKLT RAQFEGIVTDLIRRTIAPCQKA MQDAEVSKSDIGEVILVGGMT RMPKVQQTVDLFGGRAPSKAV NPDEAVAIGAAIQGGVLAGDV TDVLLLDVTPLSLGIETHGAVF SKLINRKTNIPTKKSQVFSTAAD GQTQVEIKVCQGEREMAGDNK LLGQFTLIGIPPAPRGVPQIEVTF DIDANGIVHVSADKGTGREQ
20149	50517	A	20265	1	168	LERERRKRSRKELLNFYAWQH RESKMEHLR/QLRKKFEEDKQR IELLRAQRKFRPY

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20150	50518	A	20266	3	1085	ARAGAEPQLPATPALPGGKMV ARSLAGLSSG*PGHPSPPI SFP AIPIKFSEKQQASHYLYVRAHGIQ QGTKWREALGWP/SRMLTLGF P/PPCS/EESLSCLQSTCGLVQSV ELKFPDLPHPCTSCLA FSVPC*S SRTVSAGHLQGLPRLPSCFPTE GAPSPGLGAGSPGALLFRDLVP DVGRSPQPLTSLSLQGFQVAYV VFQKPSGVSAALAVGPKCQA* GSPVSLAPFSSEWISDYADSVPD PGWRLREVPGAHRTMGSPSLQ EEAKAKEEEGV PDEEGWVKVT RRGRRPVLPRTEAASLRVLERE RRKRSRK\ELL\NFYAWQHSRE/ SKMEHS*GKCARSFEEDKQRIR ACCGPKRKIPDRN
20151	50519	A	20267	2	334	SLQVQPFASLISKAPLSTPRLLIN KEKAGQSDPFLGMIMGLGGGM DFDSKKA/YAELLGWKKELEDL VRREHASIDAQSGAGVPNPSTS ASPKKSPPPAKDEARTTEREKP Q
20152	50520	A	20268	124	407	QSDPFLGMIMGLGGGMDFDSK KAY/RVRPRRGLGQPGMDRVR WERGHEGR*EEQAGASPPGNS DLLLHRRDVAWLGECDQGC LA LAELLGWKVRS
20153	50521	A	20269	193	458	
20154	50522	A	20270	55	1165	RDRAVGDSLKGFSTAPMAEPD PSHPLETQAGKVQEAQSDSDS EGGAAGGEADMDFLRNLFSQT LSLG\SQKERLLDEL TLEGVAIR YMQSERCSQSSSCLVGAGISTS AGIPRLFASPSTGLLLNNLEK*P SFPNPEAIF*DSAIFKKH\PEPFFA LAK\EL\YPGAVSRPTICSIISGL LERDKGGLLLR/CVKRREH*VT WERIAG\LEQEDLVEAHGTFYT SHCVSASCRHEYPLSWMKEKIF SEVTPKCEDC\QSLVKPDIVFFG ESLGARFFSCYCSDFLK\VDLL L\VMGTSL\RDVAWLGECDQGC LALAELLGWKKELEDLVRREH ASIDAQSGAGVPNPSTSASPKK SPPPAKDEARTTEREKPQ

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20155	50523	A	20271	3	357	FGFNGCSKRIIKLQELSDLEERE NEDSMVPLPKQSLKFFCALEVV LPSCDCRSPGIGLVEEPMCKVE EGPLSFLMKRKTAQKLAIQKAL SDAFQKLLIVVLG/QDCLDHP*S TSVSVSK
20156	50524	A	20272	696	1123	IPLKMMNFLQSLKSPQLSHQLR L*LPQVEPSLTQQNFPAQTP/V PPMEAEPSPNQQEATVQASEPP KNIELSSQQMVPENIFPPTMENS NQLPEPPTTEVVAQLPPRYEVTIP TQGQDQAQLSTLASVTLQPLDL GFIITPESTTEIELSPTMQETPTQ PPKEFVPQPPV/LSRESSEETGPL PVQQETSAESPEPTKDENPSPIQ *EAAFSEISSQGSSWHQT
20157	50525	A	20273	1	727	GIPAADR\EASLELIKLDISRTFP NLCIFQQGGPYHDMHLSILGAY TCYRPDVGYVQGMFSIAAVLIL NLDTADAFIAFSNLLNKPCQMA FFRVDHGLMLTYFAAFEVFFEE NLPKLFAHFKKNNLTPDIYLID WIFTLYSKSLPLDLACRIWDVF CRDGEEFLFRTALGILKLFEDIL TKMDFIHMAQFLTRLPEDLPAE ELFASATIQQMSRNKKWAQVL TALQKDSREMEKGSPSLRH
20158	50526	A	20274	3	435	CGGIPKMEESA EYEAARHKRE KRMENINLAGSKRGKEDGKDS EFAAIENLPGFELLSREKVLCS SLNLSPARYVTVKTIHKDHLQK RQGIP/CQKPPS*LPGQSPKEKD FEFPHRKRLDLQGRVLKLRFE SQGDAQTVQCQPK
20159	50527	A	20275	46	513	

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20160	50528	A	20276	3	1084	NQEWKRSPITVAKATQGAYL NILKDTLRAQKEQKEGKEEVIH KGAKLHPNGYRMAQGSETLVA RGGPCRSVEPSAASPQELRGW WEAQALKRWGLMGGVWVME VDPSWLGAISAIVSSASRLKS VWHIPCPHLLLRPQLKEAQR KKQLEERCVEESIGNAVLTW NNEILPNWETMWCSRKVRDLW WQGIPPSVRGKVWSLAIGNELN ITHELFDICLARAHERWRLSTG GSEVENEGLCVAVCAQQGHVG VMGFGSDEPSAVSPCEKGKSLA AWVLIFVDFRVGLQKSFQKRK ERESTKLQQLWSWCLMLTYFA AFEVFFEENLPKLFAHFKKNNL TPDIYLID/W*FRLLVGC
20161	50529	A	20277	60	556	EDSEMAPPAPGPASGGFGEVYE LFDVKNAFYIGSYQQCINEAQR VKLSSPERDVERDVFLYRAYL RRDSIVAELDREMSRSDVTNT TFLMAASIYLHDQNPDAALRA LHQGDSLECTAMTVQILLKLDL LDLARKELKRMQDLDEDATLT QLATAWVSLATGG
20162	50530	A	20278	1	628	FFYKSVLAQKEVRCVLDE/ISPL GPPELKPVRMFADL/LPHESRR DSSVPELAEKMSRSDVPTPPS LLMAASIYLHDQNPDAALRAL HQGDSLECTAMTMQDAYYIFQ EMADKCSPTLLLLNGQAACHM AQGRWEAAEGLLQEALDKDSG YPETLVNLIVLSQHLGKPPEVT NRYLSQLKDAHRSHPFKEYQA KENDFDRLVLQYAPSA
20163	50531	A	20279	1	884	RKFGVVLDEIKPSSAPELQAVR MFADYLAHESRRDSIVAELDRE MSRSDVTNTTFLMAASIYLH DQNPDAALRALHQGDSLECTA MTVQILLKLDRLDLARKELKR MQDLDEDATLTQLATAWVSL ATGGEKLQDAYYIFQEMADKC SPTLLLLNGQAACHMAQGRWE AAEGLLQEALDKPPHGCSCERK LVSPFMVETEAQKSPVCKKVPC HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFKEYQAKEN DFDRLVLQYAPSA
20164	50532	B	20280	512	903	
20165	50533	A	20281	18	413	

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20166	50534	A	20282	1	1195	MKHPNINSALQAPHPFVPGRPH LVAGVAPPALSNHPQARATAA AGKPHPRCAEAAGIGLACTAPG SHWLKMGELPLDINIQEPRWD QSTFLGRAP\HFFT\TDPNLLL SGAQLEASRNIVQNYRAGVVTP GITEDQLWRAKYVYDSAFHPD TGEKVVLIGRMSAQVPMNMTI TGCMLTFYRQGSKDEGHCRRG RSECLCSLRKTPTVVFQWVN QSFNAIVNYSNRRW*HFPSLVR QLGT\AYVSAT\TGAVATALGL KSLTKHLPPLVGRFVPFAAVAA ANCINIPLMRQRELQVGIPVAD EAGQRLGYSVTAAKQGIFQVVI SRICMAIPAMAIPPLIMDTLEKK DFLKRRPWLGAQLQVGLVGFC SIHISNLEPELRAQIHEQNPSVE VYYYNKGL
20167	50535	B	20283	24	51	
20168	50536	C	20284	1	1182	
20169	50537	B	20285	1	372	
20170	50538	A	20286	1	4610	ELAQNH SRPAPASAPGGGGGG DPNMATARTFGPEREAPAKE ARVVGSELVDYTYVYIIQVTDG SHEWTVKHRYSDFDLHEKLV AERKIDKNLLPPKKIIGKNSRSL VEKREKDLEVYLQKLLAAMP VTPRVLAHFLHFH\FYET*VIHA A\LAEELEFEKGEQLLGAGEVFAI GPLQLYAVTEQLQQGKPTCAS GDAKTDLGHIL\DFTCRLKYLK VSGTEGPFGTSNIEQLLPFDLS IFKSLHQVEISHCD
20171	50539	A	20287	1	4670	MAAQRAAGATGGGGRGASAP GGGGGGDPNMATARTFGPERE AEPAGEARVVGSELVDYTYVYI IQVTDGSHEWTVKHRYSDFDH LHEKLVAERKIDKNLLPPKKIIG KNSRSLVEKREKDLEVYLQKLL AAMPVTPRVLAHFLHFHFYEI NGITAALAELEFEKGEQLLGAG EVFAIGPLQLYAVTEQLQQGKP TCASGDAKTDLGHILDFTCRLK YLKVSGTEGPFGTSNIEQLLPF DLSIFKSLHQVEISH
20172	50540	A	20288	2	227	ERFRPPIARVIDVSNGKVHVAE/ SCLEETGGLGVDIVLDAG\LDPP DSHCLFLKGATLAFLNDEVWN LSNVQQGRYL
20173	50541	A	20289	3	487	

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20174	50542	A	20290	2	222	
20175	50543	A	20291	1	296	HLSPGKSV\LIMDGASA\FGTIAI QLAHHRGAKVISTACSLKQKQ LERFRPPIARVIDVSNGKVHVA ESCLEETGGLGVDIVLDAGGYI FQHSSYIFT
20176	50544	A	20292	353	512	
20177	50545	A	20293	2	396	VRLYSKDDEPAVKLQLLPHKH DIITLLGVGGHWVTTEENLQLD PPDSHCLFLKGATLAFLNDEVW NLSNVQQGKYLS*QSFQLRLK DVMEKLSTGVFRPQSDEHIPVF EARISLEIVEKNQGR*NKLHF
20178	50546	B	20294	1	1182	
20179	50547	A	20295	1	1189	PTRPDQWEQGAGSLTKDWKV AVVKVQAVGAAQRQVTMKGL YFQQSSTDEEITFVFEKEDLPV TEDNFVKLQVKACALSQINTKL LAEMKMKKDLFPVGREIA\GIV LDVGSKVSFFQP\DEDEVVGLP\ LDS*KTPGL\CESLLRVHEPLL FINPEKVTW\TEAAGSISGMGV RAYYSFLHLS/YLHLLSWGKSV LIMGGS/ASAFGTIAIQLAHHRG AKVISTACSLKQKCLERFRPPI ARVIDVSNGKVHVAESCLEETG GLGVDIVLDAGVRLYSKDDEP AVKLQLLPHKHDIITLLG\VG HWVTTEENLQLDPPDSHCLFLK GATLAFLNDEVWNLSNVQQGK YLCILKDVMEKLSTGVFRPQLD EPIPLYEAKVSMEA\QKNQGR
20180	50548	A	20296	3	115	FFKFSFFNGC*SIKRQSQGQALD RDIICFVDICTKDC

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20181	50549	A	20297	1	1401	MKEEELTRQIVLVQEAGKGVV RTKDGACAEVWQALEELEKGL CAGIVRVEGMAAAPPSCFVAF PPRAKDGLVVFVKNSARPRDE VQEVVYFSAADHEPESKVECT YISIDQVPRTYAIMISRPAWLW GAEMGANEHG\VCIANEAINTR EPAAEIEALLGMDLVRL\GLER GETAKEALDVIVSLLEEHGQGG NYFEDANSCHSFQSAYLIVDRD EAWVLETIGKYWAAEKVTEGV RCICSQSLSTTKMDAEHPELRS YAQSQGWWTGEGEFNFSEVFS PVEDHLDCGAGKDSLEKQESI TVQTMNNTLRDKASGVCIDSE FFLTASGVSVLPQNRSSPCIH FTGTPDPSRSIFKPFIFVDDVKL VPKTQSPCFGDDPAKKEPRFQ EKPDRRHLYKAHEWARAIIES DQEQRKLRSTMLELEKQGL* AMEEILTSSEPLDPAEVDLFY
20182	50550	A	20298	1	356	QTPKIVADKDYSVTANSKIVV VTAGVRQQEGESRLNLVQRNV NVFKFIIPQIVKYSPDCIIVVSNP VDILTYVTWK/ARFRYLMAEKL GIHPSSCHGWILGAHGDSSVAV WSGVNLAG
20183	50551	A	20299	1	322	
20184	50552	A	20300	25	1086	
20185	50553	A	20301	1	864	
20186	50554	A	20302	13	190	

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20187	50555	A	20303	1	1350	MEKPKRLRWLWGPAPSSLLAE PAPEETHAADFVFSARLLQRSP EPSLSWGGRALAEEQKAEGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEEEATVPNN KITVVGVGQVGMACAISILGKS RAMEHTTAGAPYTPRQQTCQC NMMSLADELALVDVLEDKLGK EMMDLQHGSFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KYSIDCIVVSNPRDILTYGT WKL SGLPKHRVIGSGCNLDSAR FRYLMAEKLGIHPSSCHGWILG EHGDSSVAVWSGVNVAGVSLQ ELNPEMGTDNDSSENWKEVHK MVVESA\YEV\IQA*KGYTH\WA IGLSVA/EILNESMLKNLSR\IHP VSTMVKGMGYGIENEVFLSLPCI \LNAGGLTSVINP\KVKDDEVAQ LKKSADTLWDI\QKDLKDL
20188	50556	B	20304	1337	1706	
20189	50557	A	20305	178	344	
20190	50558	A	20306	2	297	TKMTVNNLHPRVTEEDIV/GQP MKCNLHMNGNVITSDQPILLRL SDSPSMKKESELPRRVNSASSS NPPAEVDPDTILKALFKSSGAS VTTQPTFEFKIKL
20191	50559	B	20307	8	478	
20192	50560	C	20308	146	391	
20193	50561	A	20309	3	735	HRQKDARFRIKGKVQDAREML NSRKQQTTPQKPRQVADARE KISLKRSSPAAFINPPIGTVTPAL KLTKTIQVPQKAMAPLHPHPA GMRINVNNHQAKQNLVDLD EDDDGIASVPTKQMKFAASGG FL\HHM\AGLSSSKLSMSKALPL TKVVQNDAYTAPALPSSIRTKA LTNMSRTL VNKEEPPKELPAAE PVLSPLEGTKMTVNNLHPRVTE EDIVELFCVCGALKRARLVHPG VAEVG

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20194	50562	A	20310	1	1763	MEIASFVGPNVNTVGNLRPAQS AAGDGDEVQSVHSQRQDCQAT GSLNNGENNEKNAFTTYQQET KNTTTPQSVYFLGVNKMSSQH REGSRGTSPPLPVLACFELAVA RVGPRTPEVVRRSLAAEGAGSR GLDCFRLARRIKMADISLDELIR KRGAAAKGRLNARPGVGGVR SRVGIQQGLLSQSTRATFQQR FDARQKIGLSDARLKLGVKDA REKLLQKDARFRIKGVQDAR RDV*TFRKQQT\VPQKPRQV\A D\ARERIQ\GRGRSPAFLNPPI GTGTPALKLT\TTIQRMHVDPVG WILTTECFQVPQKAMAPLHP HPAGMRINVNNHQAQONLY DLDEDDDGIAVPTKQMKFAA SGGFLHHMAGLSSSKLSMS\KA LPLTKVVQNDAYTAPALPSSIR TKALTNMSRTL\VNKEEPPKELP AAEPVLSPLEGNKMT\VNNLHP RVTEEDIV\EVFCVCGGL/RRRA RLVPSGG*PKVVFCCKRDDAIT AYKKYNNRCLDGQPMKCN\AH MNGNVITSDQPILLRLSDSP\SM KKESELPRRVNSASSSNPPAEV DPDTILKALFKSSGASVTTQPTE
20195	50563	A	20311	1	915	
20196	50564	A	20312	3	3238	LDTDDDLNSDDYEYEDAKLVI FPDHYEIALPNIEELPALVSECA RLLARCAWLCVSLKLSTLLTDD TGLLTVRNKEEVLARSKVITIA CDAVLSSKSPYRKQDPDTWEN ELPVSKYANNLTQLDNGVRIPP SGWKCARCDLRENLWNLTDG SVLCGKWFFDSSGGNGHALEH YRDMG\YPLAVKLGITITPDGAD VYSFQEEEP\LDPLAKHLAH F\GID\MLHMHGTENGLQ\NDI KL RVSEWEVIQES

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20197	50565	A	20313	2	2716	AEFRGIPRRRRRQTTPRSGSGSAR SAPVRAEAMQRRGALFGMPGG SGGRKMAAGDIGELLVPHMPTI RVPRSGDRVYKNECAFSYDSPN SEGGLYVCMNTFLAFGREHVE RHFRKTGQSVYMHLEKREHREK VRGASGGALPKRRNSKIFLDLD TDDDLNSDDYEYED*AFLVIFP DHYEIALPNIEELPALVTIACDA VLSSKSPYRKQDPHTWENELPV SKYANNLTQLDNGVRIPPSGW KSARCDLRENLWLN
20198	50566	A	20314	2	322	
20199	50567	A	20315	1285	3331	GAGAPRDWRLRRRGGAALCLK VLFDVRSFPREAAALTPHRLQ FPRSSSPGDQMMAAARLLPVP AGPQPLSFQAKLTFEDVAVLLS QDEWDRLCPAQRGLYRNVMM ETYGNVVSGLPGCKPDIIHLE LRGISLGPVPEWG*EEPGPVE*L L/ENVETKGESQNTDLSPKPLIS EQTIVLGKTPGRIDQENNETK* SFCLSPNSVDHREVQVLSQSMF LTPHQAVPSGERPYMCVECGK CFGRSSHLLQHQRHTGEKPYV CSVCGKAQSQSVLSKHRIHT GEKPYERNRACISLYSEPHLAH LSLIHTGEKPH*CLECPKFTQL SHLIHQRIHTGERPYVCPCLG KAFNHSTVLRSHQRVHTGEKP HRCNECGKTFVSKRTLLQHQR HTREKPYTCSECGKAFNDRSV LIQHNVHTREKPYECSECGKT FSHRSTLMNHERIHTTEKPYAC YECGKAFVQHSLLIHQQRVHT GEKPYVCGECGHAFSARRSLIQ HERIHTGEKPFQCTECGKAFSL KATLIVHLRTHTEKPYECNSC GKAFTRTQLLIHQQRHTGEKP YECGECGAFNQHGHLIHHQK SAQKSCDPWLTQE/CPFSQKLH VEPTSSLQPKRSLC*LYRKLFPG DSVSQNNRKKHLACCSCGKTS ETTCFIFLNHLEV/HVGE*SYNC
20200	50568	A	20316	1	319	
20201	50569	A	20317	1	2433	
20202	50570	A	20318	2	293	GELAGTQCTRGACPHSP*PLHR Q/HTTVTHITAFDPDSTGQQVW QDLLQDQGQLDSPTGDDGSDWE MVGREVVPLGPGVGLVISRP CFHVRDPYPWG

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20203	50571	A	20319	1	537	GGGTITRGWRGQFCRWQLNPG MYQHRTVIADQMRTLRSREV** HAQGHKFTVCLRREGQTVYQQ VLSLERPSVLRSWNWGLCGYF AFYHALYPRAWTVYQLPGQNV TLTCRQITPILPHDYQVRPPHLY LPLPSLPQDLPLETAWPARRG SHACNPNTLGGKAGGSRDQEIE TILANT
20204	50572	C	20320	3	170	
20205	50573	A	20321	278	1018	RVGVSRRPEVRNWATRDCAQ ERMTHCLLHGMGRAGAASLTP KPMSLISAYCGGLWLA AVAVM VQMAALCEGTGQSRISFLSSA GAKKPMRDCCGMVSSGSLSSL KAAERTPGALFFSSSTPGRYYN YDSSSRPQSRVMSDQVCWTV GVPEGLWP*EKGDTEVREEEEQ PERKMGFPWRWEVFPTQHVVR ALQTIFELNVQAFAGGAMGAV NGMQPHGVDPKSSVQSDEVW VGVVYGLAATMIQE
20206	50574	A	20322	3	627	

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20207	50575	A	20323	270	2945	NTSSFKLSPTTGPPGRYLTTTGA RIWNRLARYLVSEGSGLGAIEV MGTQDPGNMGTVPAEQISC AKEDPQVYCPEETGGTKDVQV TDCKSPEDSRPPKETDCCNPED SGQLMVSIEGKAMGYQVPPFG WRICLAHEFTEKRKPFQANNVS LSYMIKHIGMGLRYLQWRDRK THVEKKTPFIDMNKSVPIQSYF VPLGGLRGGTSTRGWRGQFCR WQLNPGMYQHRTVIADQFTVC LRREGQTVYQQVLSLIERPSVL RSWNWGLCGYFAFYHALYPRA WTVYQLPGQNVTLTCRQITPIL PHDYQDSSLPVGVFVWDVENE GDEALDVSIMFSMRN/GTGWW RRCPRGFVGMSPSVWSVGVQT VRGLLLHSSNPSKPLHDGLWLA RSSRAATTVNPH/CTAFDPGART GAA/VWQDLLQDGLDSTPTGQ RTPTQKGVGIAGAVCVSSKLRP RGQCRLEFSLAWDMPRIMFGA KGQVHYRRYTRVFGAG/GDAP PALSHYALCRYAEWEERISAW QSP/VLDDRLPAWYKSALFNE LYFLADGGTVWLEVLEDSLPEE VRAETSVTSAPTLRDYRRFG*LE GQEY/RMYNTYDVHIFYASFALI MLWPKLELSLQYDMALATLRE DLTRRRYLMSGVMGTCEKEGT FIPHDIGGPRWMEPWASAFNAY VLIHDTADWKDLNLKFVACRFI
20208	50576	C	20324	123	359	
20209	50577	A	20325	1	259	KPVGEKDTWSGMRTTGQLRPA HGVRLKANKDSLYKPILRQKK HFNSLHIPKALQKALPFKNKPK TQAKAGKVPKDRRR*TVSNITV
20210	50578	A	20326	297	585	
20211	50579	A	20327	182	374	PDFRIAAT*VVLDLDSIKIVKK LKLTFGPYKIFKNTSFIKACISY SHIYKSPYCLRKGMKYL

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20212	50580	A	20328	1	1267	MAANRKDFIHRRCGPELSQSEA VPQGLCRAERSSALAMLSGSVP RRTQLRPCKGTQRRCRGGGEA DSGGEAVGGGAAERRSAAARR RGRRRRGGGEAVGGGAAERRS AAARRRRGGRRRRGGGEAGGG GAAEARRAAAARRAAARRA AAARRRAAAARRAAARRIAES GGEAHSRGEAHSGGEAHSGGA GAERRRPRLHSPALKTHPGQSS EGHVEYKLNHVEFEDQDDEAR VQYEGFRPGMYVRVEIENVPCE FVQNFDP LYPILGGLGNSEGNV GHVQMRLKKHLWYKKILKSQ DPIIFSVGWRRFQTILLYIEDH NGRQRLKYPQHHCGAAFW DIVFMRTWYLV SIPAFYNPVT LLKPVGEKDTWSGMWTTGQL RLAHGVRLKTTKDSL YKNIHMI VETDTYS DHEEINTS
20213	50581	A	20329	66	1414	KEELYGDFEDLETGDVHKGKS GPDTQNEDEVEKKEEIDPDEES AKKKHLDKKRKLKEMFDVEY DEGESTYFDDLKGEMQKQAQV N/RHTRFP RPAPRHVQLNHAEF EDQDDEARVQYEGFRPGMYVC VEIENVPCEFV*NLDPRYPILG GLGNSEGNVGYVQVGPFAAYL VPEALWISPPSIILPSHPPQMRLK KHRWYKKILKSRDPIIFSVGWR RFQTIPLCYIEDHNGRQRLKY TPQHVHRGA AFRSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSR IAATGVVLDLDSIKVVKKLKL TGFPYKIFKNTSFIKGMFNSALE VAKFEDAVIRTVSGIRGQIKRA L*APEGAFQDSLEDKLMSDIV FMRTWYPVSIPAFYNPVTSLK PVGEKDTWSGMWTTGQLRLA HGVRLKTNKDSL YKVLVVCVL VEMKPVLYRQ

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20214	50582	A	20330	4210	5099	AKDQKKHRKKNSGPKAARKK KRLQLDLQLGDEEDAWKRNP KAF\AFQSAVWMARSFHRTQD LKTKKHHIPVVD\RTPLEPPPIV VVVMGPPKVGKSTLI*CLIRNF TRQKLTEIRGPVTIVSGKKLRL\ TIIDCGCDINMMIDLGEVADLV LMLIDASFGFEMETFEFLNICQV HGFPKIMGVLTHLDSFKHNKQL KKTKKRLKHRFWTEVYPGAKL FYLSGMVHGEYQNQEIHNLGH FITVMKFRPLTW
20215	50583	A	20331	56	467	
20216	50584	A	20332	282	452	
20217	50585	A	20333	1	1356	
20218	50586	A	20334	80	1096	GLGVRVLRCPGVYRGPCTRAA YLGWLWTTLSPYCCLRSADMN PIVLVHGGGAGPISKDRKERVH HGMVRATTVGYGILREGGSAV DAVQGAVVALEDDPEFNAGCG SVLNTNGEVEMDASIMDGKDL SAGAVSAVQCIANPIKLARLVM ENFPHCFLLTDQGAHFAGAMG VPEIPGKKLVTERNKKRLEKEK HEKGAHKTDQCQNLGTVGAV ALDCKGNVAYATSTGGIVNKM VGRVGDSPSLGAGGYADHDF* AVSTTGHGE\SFLKVNLARLTLF HIEQGKTLLEEAADPIG/CG*MKS RVKGLGGLIVVSKTGDWVAK WTSTSMPWAAAKDGKLPLRN
20219	50587	A	20335	1	1416	
20220	50588	A	20336	3	277	

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20221	50589	A	20337	235	2811	VKMEAPLRPAADILRRNPQQD YELVQRVSGTYGDVYKARNV HTGELAAVKIIKLEPGDDFSLIQ QEIMVKECKHCNIVAYFGSYL SREKLWICMEYCGGGSLLQDIYH VTGPLSELQIAYVCRETLQGLA YLHTKGKMHARDIKGANILLTD HGDVKLADFGVAAKITATIAKR KSFIGHTPYWMAPEVAAVEKNG GYNQLCDIWA VGITAIELGELQ PPMFDLHPMRALFLMSKSNFQP PKLKDKTKWSSTFHNFKIALT KNPKKRPTCLKDF*HHTFVAQ PGLSRALAVELLDKVNPNPDNH AHYTEADDDDFEPHAIIRHTIRS TNRNARAERTASEINFDKLQFE PPLRKETEARDDEMGLSSDPNFM LQWNPV*WWQITGKSTSKR\A IPPPLPPKPRISSYPEDNFPDEEK ASTIKHCPDSESRAPQILRRQSS PSCGPVAETSSIGNGDGISKLMS ENTEGSAQAPQLPRKNDKRDFP KPAINGLPPTPKVLMGACFSKV FDGCPLKINCATSWIHPDTKDQ YIIFGTEDGIYTLNLNELHEATM EQLFPRKCTWLYVINNTLMSLS EGKTFQLYSHNLIALFEHAKKP GLGCPIFQTHRFPDRILPRKFAL TTKIPDTKGCHK\CCIVRNPYTG HKYLCGALQSGIVLLQWYEPM QKFMLIKHFDPLPSPLNVFEM LVIPEQEYPMVCVAISKGTESN
20222	50590	C	20338	365	389	
20223	50591	A	20339	1	350	FDVTELCGQWLSRGGEIEGFRL SAHCSCDSRDNTLQVDINGFTT GRRGDLATIHGMNRPFLLLMA TPLERAQHLQSS/RAPCCVPQAL EPLPIVYYVGRKPKVEQLSNMI VRSCCKCS
20224	50592	A	20340	1	708	
20225	50593	B	20341	229	1249	
20226	50594	B	20342	49	375	
20227	50595	A	20343	42	305	GARAHAPVLVQEEDLHGPHPL RPERL/PSVPSGRSSPPASR/PVG PGG/DQLRPSDRQQQVSGME WC/PWSGRSPGLSPTVGPRGGC HPTST
20228	50596	B	20344	8	1990	
20229	50597	A	20345	1	1512	

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20230	50598	A	20346	1	1663	SGRDRRGRAWRKRNREPPTRG RSPDPQGPSARPLPSLGARISAA DRLSGLAARLIGNSRPVAGANA GVGPDLSHAGLVPTCARRLR KNGLGRRRRRPPSPRPSLESS SRLTTLGTSQPLKFNFPCDLRI FQTFNC\WG\IPVL*AKHR\ADR MRRFGRPF*TQESFDLALLEEV WSEHDFQYLRQKLSPTYPAAH HFRSGIIGSGLCVFSKHPIQELT QHIYTLNGYPYMIHHGDWFSG KAVGLLVHLNMGELNAYVTH LHAEYNRQKDIYLTHLVG\QA WELAQFIHHTSKKADVLLCG DLNMHPEDLGCCLLKEWTGLH DAYLETRDFKGSEEGNTMVPK NCYVSQELKPFPGVRIYVL YKAVSGFYISCKSFETTTGFDPH SGTPLSDHEALMATLFVRHSP QQNPSTHGP\AERSPL/MCVCL KEALDGSGLGM\A\QARWWA\ TFA\SYVIGLGL\LLLALLCVLA AGGGAGEAAILLWTPSVGLVL WAGAFYLFHVQEVNGLYRAQ AELQHVLRAREAQDLGPEPQ LYALL\LGQQEGDRTKEQ
20231	50599	A	20347	175	544	RLRCQKGIPPSLRGAWQYLSG GKVKLQQNPGKFDQ\LDMSPG DPTWLDVIERDLHRQFP\FHEM FVS/RGGH/GQQDLFRVLDAYT LYRPEGSYCKTQAPIAAVLLMH MP\AEQAFWCLVQICEKYL
20232	50600	A	20348	1	434	CAAGIRHELRRRARLGWRTAT ERMGRACPRPGKACREPGRA* ARALTPQPPTNSALSGLTRRPT ASPS\PHRQVRLDRGLAGRQGR AGGSTPGGAEAEQVQVAGHAQ AMVVAARDACPPQHVPKDS APKDSAPQDLAPQVSAH
20233	50601	A	20349	3	510	

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20234	50602	A	20350	1	1669	MAKSNGENGPRAPAAGESLSG TRESLAQGPDAATTDELSSLGS DSEANGFAERRIDKFGFIVGSQ GAEGASILGQTVPSPHGRVGE PPIRSYTASSTGTGNRLEEVP VLRQRESKWLDMLNNWDKW MAKKHKKIRLRCQKGIPPSLRG RAWQYLSGGKVKLQQNPCKF DELDMSPGDPKWLDVIERDLH RQFPFHEMFVSRGGHGQQDLF RVLKAYTLRPEEGYCQAQAPI AAVLLMHMPAEQAFWCLVQI
20235	50603	A	20351	1	243	
20236	50604	A	20352	70	382	
20237	50605	A	20353	2	322	
20238	50606	A	20354	86	215	
20239	50607	B	20355	1	735	
20240	50608	A	20356	92	1104	MSSPQAPEDGQCGDRGA\PG DLRSVLVTTVLNLEPLDEDLFR GRHYWVPAKRLFGGQ\IVGQA M\VAATSV\SEDVHV\HSLHC YF/VFRAGDP/KSLPVLYQVERT RTGVEA\FRLRSVKGP*NMGKPI F\ICQ\ASFQQA\QSPM\QHQFS MP/TLLPTTEELV*IVRTLFDQY LRDPNLQKRYPLALNRI\AAQE VPIEIKPVNPSPLRPAAEEWEPK QMFV\VRARGY\IGKSTPWKM\ HC\CV\AAIYIS\DYAFLGTALAA LTQWPSTRCHFHPPLD\HNPM W\FHAPFRAD\HWMLYECESPW AGG\SRGL\VHGRLWRQDGVLA VTCAQEGVIRVKPQVSESKL
20241	50609	A	20357	3	1106	LRRQLQPLLPLPKSPRSGAHL GSLFRSPQPSYPVRPPGSAGTPP PACLPPAQPCQGSPAMNLFRL GDLSHLLAIHLLLLKIWKSRSCA GISGKSQVLFVAVFTARYL\DLF TNYISLYNTCMNV\VYIACSFTT VWLIY\TKFK\ATYDGNH\DTFR SGSSRVV\VPQAILGVSWSNHD FTPL\AILW\TFSIYLGVSGLPQ LFHG*GKTGRGRETHSPATYLF CAKAFNPHALSLSNWIWR\YHF \EGFFD\LIAIVAGPGPRQSSYCD FFYLYYSPKFLKGERKFEFCRH RPRFLSISSPRAAAGRAGGKAG RKMKSFSHPRGDFFKNPTSLCS PIPPSCPLKGNSARIPGLWGAQ RLGAVCSFLAF

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20242	50610	A	20358	356	1356	TPTTSGRTRKMWPRPGT*PP/A NCSANINLTHQPWFQVLEPQFR QFLFYRHCRYFPMLLNHPEKCR GDVYLLVVVKSIVTQHDRREAI RQTWARAAVRGWGPSAVRTL LLGTASKQEERTHYQQLLAYE DALYGDILQWGFDTFFNLTLK EIHFLKWLDIYCPHVPFIFKGDD DVFVNPTNLLFLADRQPQENL FVGDLVQHARPIRRKDNKYIIP GALYGKASYPPYAGGGGFLMA GSLARRLHHACDTLELYPIDDV FLGMCLEVLGVQPTAHEGFKTF GISRNRNSRMNKEPCFFRAMLV VHKLLPPELLAMWGLVHSNLT CSRKLQVL
20243	50611	A	20359	221	1579	CCVDEGLEPTCFERTEDIGGVW RFKVSEIFLQLEQVLLFQGESQ LMSCFSDFPMPEDFPNHLHNSK LLEYFRIFAKKFDLLKYIQFQVL YFWGNGFLCISSAHI*IENTQSN GKEQSAVFDAMVCSGHHILP HIPLKSFPGETRWDSQLFGVGF QVLYM*FEGKRILVIGMGNSGS DIAVELSKNAAQV*CSLLTMYL EGRKWGCHTGDWDSVFHTRFR SMLRNVLPRATAVKWMIEQQM NRWFNHENYGLEPQNK*SYFA FLMVYSLVSKVV*RCLKVKST VKELTETSAIFEDGTVEENIDVII FATGYSFSFPFLEDVSVKVENN MVSLEYKYIFPAHLDKSTLACIG LIQPLGSIFPTAELQARWVTRVF KGLCSLPSEPTMMMDIIRNEK RIDLFGESQSQTQNTYVDYLD ELALEIGAKPDFCSLLFKDPKLA VRLYFGP\CNSY
20244	50612	A	20360	3	200	
20245	50613	A	20361	292	570	
20246	50614	A	20362	2	511	RLRSGPLRLPGADSGSGPKAVC SPPFIVAPTGRGYCGDHESSFGA MEEPGVTPQPYLGLLLEELRRV SPGAMSVTWP/EGSREPPGEGSS RPALGSKPPWSEVPKPVLVCCP APAR\FEAVVRLVGRLSGFCVM EEDLGLWEGREKKLALMLSLGI EEKSKLLEKFSLVQKE

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20247	50615	A	20363	2	3262	FLSDLEENFENNIFSFQVCDVVL NHAPDFRRVYLPYVTNQTYQE RTFQSLMNSNSNFREVLEKLES DPVCQRLSLKSFLILPFQRITRL KLLQNILKRTQPGSSEAEAT KAHHALEQLIRDCNNNVQSMR RTEELIYLSQKIEFECKIFPLISQS RWLVKSGELTALEFSASPLRR KLNTRPVHLHLFNDCLLSRPR ESVTGVAGQGTRGEGDEERGG SEREREGSEKLRWISALAMPRE ELDILLECYTAE
20248	50616	A	20364	2	2339	TGRGYCGDHESSFGAMEEPPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICAAY VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSKLL EKFSLVQKEYEGYEVESLKD SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKSKHS EQDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQSQKQLL QEAQVWKEQVSELNKKVTFE DSKVHAEQVLNDKESHITLTE RLKMKDWAAMLGEDITDDD NLELMNSESENGAYLDNPPK GALKKLIHAAKLNASLKTLEGE RNQIYIQLSEVDKTKEELTEHIK NLQTQQASLQSENTHFENENQ KLQOKLVMTELYQENEMKL HRKLTVEENYRLEKEEKLSKV DEKISHATELETYRKRAKDLE EELERTIHSYQGQIISHEKKAHD NWLAAARNAERNLNDLRKENA HNRQKLTELEKELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPWDQDRRMMFPPPG QSYPDALPPQRQDRFCNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFP\AKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

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20249	50617	A	20365	160	2810	GLRVPLSPSSPRSLRSGPLRLP GADSGSGPKAVCSPPFIVAPTG RGYCGDHESSFGAMEEPGATP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICAADV GFFAVLFFLWRSFRSVRSRLYV GREKKLALMLSGLIEEKSLLLE KFSLVQKEYEGYEVESLSKDas FEKEATEAQSLEATCEKLNRSN SELEDEILCLEKELKEEKSXHSE QDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFPMNEERLK IAIKDALNENSQQLQESQKQLLQ EAEVWKEQVSELNKQKVTFED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSESENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLKVMTELYQENEMKLHR KLTVEENYRLEKEEKLSKVDEK ISHATEELETYRKRAKDLEEL ERTIHSYQGQIISHEKKAHDNW LAARNAERNLNDLRKENAHR QKL TETELKFEL\LEEDPYALDV PNTAFGREHSPYGPSPLGWPS ETRAFLSPPTLLEGPLTSLPLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRALSDTGFLS PPWDQDRRMMFPPPGQSYADS ALPPQRQDRFCSNSGRLSGPAE
20250	50618	A	20366	131	461	

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20251	50619	A	20367	1	1761	MARGYGATVSLVLLGLGLALA VIVLAVVLSRHQAPCGPQAFAH AAVAADSKVCSDIGRVAILQQQ GSPVDASIAALVCTSVVNPQSM GLGGGVIFTIYNVTTGKVEVIN ARETVPASHAPSLLDQCAQALP LGTGAQWIGVPGELRGYAEAH RRHGRLPWAQLFQPTIALLRGG HVEAPVLSRFLHNSILRPSLQAS TLRQLFFNGTEPLRPQDPLPWP ALATTLETVATEGVEVFYTGRL GQMLVEDIAKEGSQLTLQDLA KFQPEVVDALEVPLGDYTLTLYSP PPPAGGAILSFILNVLRGFNFST ESMARPEGRVNVYHHLVETLK FARGQRWRLGDPRSHPKLQNA SRDLLGETLAQLIRQQIDGRGD HQLSHYSLAEAWGHGTGTSHV SVLGEDGSAVAATSTINTPFGA MVYSPRTGIILNNELLDLCERC PRGSGTTPSTVSGDRVGGAPGR CWPPVPGEPSPSSMEPSILINKA QGSNLVIGCAGGELIISAVAQAI MSKLWLGFDLRAAIAAPILHVN NKGCV EYEPNFSQEVQRGLQD RGQNQTQRPFFLNVVQAVSQE GACVYAVSDLRKSGEAAGY

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20252	50620	A	20368	341	2239	LCASSCPFICPPIRPSVCPAAAPL LLGCRAMARGYGATVSLVLLG LGLALAVIVLAVVLSRHQAPCG PQAFAHAAVAADSKVCSDIGR AILQQQGSPVDATIAALVCTSV VNPQSMGLGGGVIFTIYNVTTG AQWIGVPGELRGYAEAHRRHG RLPWAQLFQPTIALLRGGHVVA PVLRSRFLHNSILRPSLQASTLRQ LFFNGTEPLRPQDPLPWPALAT TLETVATEGVEVFYTGRLGQM LVEDIAKEGSQLTLQDLAKFQP EVVDALEVPLGDYTLYSPPPPA GGAILSFILNVLRGFNFSTESMA RPEGRVNVYHHLVETLKFAKG QRWRLGDPRSHPKLQNASRDL LGETLAQLIRQQIDGRGDHQLS HYSLAEAWGHGTGTSHVSVLG EDGSAVAATSTIYTPFGAMVYS PRTGIILNNElldLCERCPRGSG TTPSPV/SGDRVGGAPGRCWPP VPGERSPSSMVPSILINKAQGSK LVIGGAGGELIISAVAQAIMSKL WLGFDLRAAIAAPILHVNSKGC VEYEPNFS/QETVSCFVALAVL KLLASSDPATLAPKWRL*EVQ RGLQD\RGQNPDPGPFFLDVV PACV/SQEGACV*RPSRT*RKSG EAAGLLKTLLCPELEVLAPP
20253	50621	A	20369	203	1518	RCYLQFLALLTSTSARAAAAI AAAEPPAGSPSVMTRAGDHNR QRGCCGSLADYLSSAKFHL*LG HSLSTWGDRMWHFAVSVFLVE LYGNSLLLTAVYGLVVAGSVL VLGAHGDWVDKNARLKVAQT SLVVQNVSVILCGIILMMVFLH KHELLTMYHGWVLTSCYILIITI ANIANLASTATAITIQRDWIVV VAGEDRSKLANMNATIRRIDQL TNILAPMAVGQIMTFGSPVIGC GFISGWNLVSMCVEYVLLWKV YQKTPALAVKAGLKEEETELK QLNLHKDTEPKPLEGTHLMGV KDSNIHELEHEQEPTCASQMAE PFRTFRDGWVSYYNQPVF/LGW HGSCFPLYDCPGL*LHHHRVRL HSGTEWFHPQYFDGSISYNWN NGNCSFYLATSKMWFGSDRSD LRIGTAFLFDLVCDLCIHAWKP
20254	50622	A	20370	1	497	
20255	50623	A	20371	1	1575	

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20256	50624	A	20372	251	1351	SLKSTDGVKCGLSINIFHKRREN ILFGMGNPLLDISAVVDKDFLD KYSCLKPNDQILAEDKHKELFDE LVKKFKVEYHAGGSTQNSIKV AQWMIQQPHKAATFFGCIGIDK FGEILKRKAAEAHVDAHYEEQ NEQPTGTCAACITGDNRS LIAN LAAANCYKKEKHL DLEKNWM LVEKARVCYIAGFFLHVSPESV LKVAHHASENNRIFTL NLSAPFI SQFYKESLMKVMPYVDILFGK* DRSWPTFAREQGFETKDIKEIA QKDTSPCKMNSKQGRI RD LHP KGRDDT\IMATESEVTAFAGLGI KTQKEN\DTNEAGDAFVGGFLS QL\VSDKPLTECIRAGHYAASIII RRTGCTFPEKPDFH
20257	50625	A	20373	1	201	
20258	50626	A	20374	15	304	
20259	50627	A	20375	51	283	TWVKEAQNDGLCVCIYIFNCQ MTGLDIEKD\QIEMACLITDSD LNILAEVRDAHVIQSYFLKGTG NITIFSSFFI
20260	50628	A	20376	2	520	QRRLRDWGRGCWSRVMLGGS LGSRLLRGVGGSHGRFGARGV REGGAAMAAGESMAQRMVW VDLEMTGLDIEKDQIEMACLIT DSDLNILAE/GNSVHEDKKFLD KYMPQFMKHLHYRIIDVSTVKE LCRRWYPEEYEFAPKKAASHR ALDDISESIKELQFYRNNIFKKK
20261	50629	A	20377	2	206	EFGTRRHVPPCLINFFKDQGSP* LARLVSNWPQVIHPPWPPTVL GLRGVGHCPWPRLGNSSWVW GGH

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20262	50630	A	20378	1	1401	MRSQKTSLYFSLEAKFYCSLRN ERIASCDIINDAGIQTKTLMKRS HVAYALKKPVEQGDSELESK GFMAITIAVCIEQNLRHSSSLFIC MSSTGQSGTTNASSLIPSYVFT PPHFNLDDKQGRTAGKSHCGE DRKEHNNACHQEEEAPDVNPL HGLQASGSPGKTQRIKSQALEG TRLYSHSEETRSGLRLLRLRQR RLRDWGRGCWSRDMLGSLG SR\LLRGVGGSHGRFGARGVRK RGAAMAA\GESMAQRMVWVD LEITGLDI*KVQIEMACLTDS LIILAEGPNLI\KQPELLDSMS\ DWCK\EHHGKSGLTAKVKEST NYHCQQA\YEFPALWYDQPD SLPGLCPTCQEIKFHE\DKKFP* QNTCPQFMKHLHYRI\DVSHC* KELCQTAGYPEEYEFAPKKA FSIGPLDD\ISENL\KKVPFFPEN NHLPRKKIRMKRKEGKL*KMG ENEKTVS
20263	50631	C	20379	180	248	
20264	50632	A	20380	455	1133	GIEGWRGEADTLPAEQDGG RVSKGDIFSGGAETAQGWGM GPFQAAPSKRAGREHRGGQRR VQHVGWYPRPGSDKGHGKT QDSRVPLPPHPPPIHLVSRHRG KLRHGFLRPMPEPRGLES NCFGELQH/RTSP*GRSGPREGG PRNIAQQGGCRGSACGRRSHE ALRPRVWCGEQPQW\CAVC PNRSAPGAGLAD\RQHPGESRA WGETRLGEAGGAE
20265	50633	A	20381	214	412	
20266	50634	A	20382	3	257	PATVITVNTTWSAALISRESAL RSFPVKAAALSPSREGGSVTAT PNVRSMTSAVPIMRVSVQ\SKR *PEEQN*QETYPQTTSR
20267	50635	A	20383	1	1569	
20268	50636	B	20384	15	1744	

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20269	50637	A	20385	2	7205	QASGSCWSSPFFSASTPSAAAT GVPGPTDMAAVLQQVLERTEL NKLPKSVQNKLEKFLADQQSEI DGLKGRHEKFKVESEQQYFEIE KRLSHSQERLVNETRECQSLRL ELEKLNNQLKALTEKNKELEIA QDRNIAIQSQFTRTKEELEAEKR DLIRTNERLSQELEYLTEDVKR LNEKLKESNTTKGELQLKLDEL QASDVSVKYREKRLEQEKELL HSQNTWLNTLTKTKTDELLAL GREKGNEILELKCENL
20270	50638	A	20386	120	7384	GWTRFPRVPPRESPAGGRARAT ERGDRGGPGVWVLLVFAFL RFYPVGRCHWGPWAPPTWAA VLQQVL\ERTELNKL\PKSVQNK LEKFLADQQ\SEIDGP*RGGHGE I*RWESQYFEIEKRLSHSQER LVNETRECQSLRLELEKLNNQL KA\LPEKNKELEIA\QDRNIA\IQ SQFTRTKEELEAEKRDILTNE RLSQELEYLTEDVKRLNEKLKE SNTTKGELQLKLDELQASDVS VKYREKRLEQE
20271	50639	A	20387	2	433	
20272	50640	A	20388	2	181	GFRRVSLEF*FPGVRWGMRLK GAPDLAPFSQM*SGGRAPCVAS *PPCRGLRLMRTGSRR

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20273	50641	A	20389	1	2422	MAGALAGLAAGLQVPRVAPSP DSDSDTDSSEPSLRRSAGGLLR SQVIHSGHFMVSSPHSDSLPRRR DQEGSVGPSDFGPRSIDPTLTRL FECLSLAYSGKLVSPKWKNFK GLKLLCRDKIRLNNAIWRAWYI QYVKRRKSPVCGFVTPLQGPEA DAHRKPEAVVLEGNYWKRRIE VVMREYHKWRIYYKKRVSGG GPGRPQSFPPAAAGYRPPRKIPG KGILTPELAPLGPSIQSRADSAT VWPQRLLAASLPRGRLRKPSRE DDLLAPKQAEGRWPPPEQWCK QLFSSVVPVLLGDPEEPPGGRQ LLDLNCF LSDISDTLFTMTQSGP SPLQLPPEDAYVGNADMIQPD TPLQPSLDDFMDISDFFTNRLP QPPMPSNFPEPPSFSPVDSLFSS GTLGPEVPPASSAMTHLSGHSR LQARNSCPGPLDSSAFLSSDFLL PEDPKPRLPPPPVPPPLLHYPPP AKQETVPEFPCTFLPPTPAPTPP RPPPGPATLAPSRPLLVPKAERL SPPAPSGSERRLSGDLSSMPGPG TLSVRVSPPQPILSRGRPDSNKA LLGSFLGSPNSLLPETENRRITHI SAEQ\KRRFNIKLGFDTLHGLVS TLAQPSLKVSKATTLQKTAEY ILML\QQERAGLQEEAQQLR\DE IEEL\NAAINLCQQQLPATGVPI THQRFQMRDMFD\DYVRTRT LHNW\KFWVVSLLKPMAGGLQ
20274	50642	A	20390	315	387	
20275	50643	A	20391	570	1017	FCLHILQVPHTLAGHSPCAHG/R PPLPRF/HDRLPEEIQQQIVRETF HLVLKRDDNICNFLEGGSLIGG SDYKLIYRHYATLYFVFCVDSS ESELGILDLIQEQFKKDNEETG FGSGTRALEQALEKTKANIKW VKENKEVVLQWFTENSK
20276	50644	A	20392	1	1128	
20277	50645	B	20393	62	130	

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20278	50646	A	20394	99	718	ENRGWQSMIQAILVVNNHGKP RLVRF\YQRFPEEVIQQQIVRETF HLVLKRDDNI\CNFLEGG/L*L GGSDYK\LIYRHYATLYFVFCV DSSESELGI\LDLIQVFVGNWSWIS CFENVV*IW\TFH\MDK\VHYIL QEVVMGG\MVLETNMNEIVAQ IEAPNRLEKSEG\GLSAA\PARA VSAVKNNINLPEIPRNINIGDLNIK VPNLSQFV
20279	50647	A	20395	3	370	SLHLAAILGETSTVEKL/YAAGA GLCVAERRGHTA/LHLACRVG AHACARAL/LQPRRRPREAPD TYLA/QGPDRTPTDNHTPVAL/Y PDSLEKEEEEESHTPLHVAVIH K/DVEMVRLLRDAGADLDK
20280	50648	A	20396	2	1097	SRQSPATGGRLRWAPDAALAM AVVACLGQAADSDKWGD SRLS SLGPDA AAPGGPGLGAELGPGL SWAPLVFGYVTEGD\TF SAGT EYMDLQNDLRQVSHEGW CRA WGP GFPV*LPTACPLLLQTALH L AAILGETSTVEKLYAAGAGLC VAERRGHTALHLACRVGAHAC ARALLQPRRRPREAPDTYLAQ GPDRTPTDNHTPVALYPDSLE KEEEESEEDWKLQLEVENYEG HTPLHVAVIHKDVEMVRLLRD AGA\DLKPEPTCGRSPLHLAV EGPRQADVLELL\LRAGAN\A A\RM YGGRT\LG SAML RPN\I LAR\LLRA\HGAPEPEGEDEKSG P\CSSSSDSDSRLSPSAWSPLPPG
20281	50649	A	20397	47	478	LRLRKLKAIMLAFGRGKTRNSE ESSDSQEVWKDTWMFTALGH CGISMFGLDWRELTLTNYELFIS SSPTPS*VPQRLCYVVSTFLMYL SLDHLYTGEMKAFLHVLDTQS VNSDFAFFVRLSFQYFYKLLCV LWQGTVNKEFI

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20282	50650	A	20398	1	1992	METFFVIGWQPAVTVWTIGVAP PPTLEITSQHEIWVAQHPNYIIS VKQESPAPMPWTAVALDSHRS MNTIVNCAREGSTLHAPYESLM PDDLRLWNSFILKSSPSPHSRME KLSSMKLVPGAKYIRDHCLVK EALTIHKSPILLAAIDLLGNLSG FTDYQSYVIHGCLENNPTLERSI ALFNGISKWVQLMVLSKPTPQ QRAEVITKFINVAKGATAELNL WQHPKIIMLSQVVPGVFSQEHS LIRSLHANLHFTVCFPEDPLAM VAGMVQESTCPCEILQLPTTGQ LANWNEMTELVSSNGNYCNRY KPFPTCDGLKIPILGVHLKDWIA VHVNFDPWTEEIKVNIVKMHQ LSVTLSELVSLQNASHHLEPNM DLINLLTV/DGLQPADLMHAISL FRTSHRPQGLFL*IKGTSPA EHS DRSCQHFRV*KCSSWESWHGG/ WLSLEE*MSSFLLSF*KI/YCSR KNVACQTRAVCTNLDALLSSS QMSNNHHPFSLPAQDEVFEFPG VTAGHRDLDSRAITLVTGSSRK ISVRLQRATTSQATQTEPVWSE AGWGDSGSHTFPKMKS KFHDK AAKDKGFAKWENEKPRVHAG VDVVDRGTEFELDQDEGEETR QDGEPAEAVSVGAVAAPGMSE KELLQVDGRTPTRVLRMADLV GISEFRGEPAFV
20283	50651	A	20400	1	417	
20284	50652	A	20401	2	94	

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20285	50653	A	20402	190	2189	AFCPAGTRSAPCPRPRTMTMTL HTKASGMALLHQIQGNELEPLN RPQLKIPLERPLGEVYLDSSKPA VYNYPEGAAYEFNAAAAANA QVYGGTGLPYGPGSEAAAFGS NGLGGFPPLNSVSPSPLMLLHPP PQLSPFLQPHGQQVPYYLENEP SGYTVREAGPPAFYRPNSDNRR QGGRELASTNDKGSMAMESA KETRYCAVCNDYASGYHYGV WSCEGCKAFFKRSIQELPTLC*I GWYWYQNRDIDQWNRTEPSEI IPHIYNHLIFDKRDKNKKWGKD SLFNK*CWENWLAICRKLKLD HFLTPYTKINSRWIKDLNVRTK TIKTLEENLGNTIQDIGMGKDF MSKTPKAMATKAKIDKWDLIK LKSFCSSLGYLKTENTAKETTIR LNRQPTEWEKIFAIYSSDKGLIS RIYKELKQIYKKK/GNPINKWV KDMNRHFSKEDIYAANRHMKK CSSSLAIREMQIKTTMRYHLTP VRMVIIRKSGNDRCWRCGEIG TLLHCWWDCKLVQPLWKTWV RFLRDLQLEIPFDPAILLGIYPK DYKSCCYKDTCTRMFIAALFTI AKTWNQPKYPTTIG*IKKMWHI YTMEYYAAIKKDEFI/SLVGTW MKLETIILSKLTQEQTCKHHMF SFITGSRTMRTHGCREGNITHW GLLRDSVNMVTQAH
20286	50654	A	20403	2	907	RVPAMATSSFALPRILGAGARA PSRWLGFLGKATPRPARPSRRT LGSATALMIRESEDSTDFNDKIL NEPLKHSDFFNVKELFSVRSLF DARVHLGHKAGCRHRFMEPYI FGSRLDHDIIIDLEQTATHLQLA LNFTAHMAYRKGIIIFISNRNQF SYLIENMARDCE\YAHTRYFM GGMLTNARLLYGPTVRLPDLII FLHTLNNIFEPHVAVRDAAKM NIPTVGIVDTNCNPCLITYPVP NDDSPLA VHLYCRLFQTAITRA KEKRQQVEALYRLQGQKEPGD QGPAHPPGADM SHSL
20287	50655	B	20404	70	1477	

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20288	50656	A	20405	153	688	AHPLLRSPEETSRSRKPRCATT NGFLRIPEKTPWSPEVAIHRNR ITPNKPPTVKSLEKVFC*LDKE AQKEKESQK*KGPVRMPTKTL RITT\RKTP\CGE\GSKDRWDRF\ QIEISQRLH*LCTSPF*DLFKOI TFHQYLSPGV*GEKSPFADALS QISIHTIDDQFVKKKKKKKKW
20289	50657	A	20406	26	603	RPRGTLREYKVVGRCPAHSK CHTPPLAYR\MRNFAP\NHVVA KS/RAFWYFVSQKKDEESLPG EIVYCGQGV*ESSPCGSKNFGI WLR\Y\DSRSG\THN\MYRE*PGP *PTAGGCSPSCYPRHGVARHAG PEAHFHFRIERLEEIAGQQNC RRPGCSKQFPRISRKF\LPAPG SLRRQDKPRF\TTKRPNTFF
20290	50658	A	20407	161	418	
20291	50659	A	20408	1	2580	
20292	50660	A	20409	3	264	
20293	50661	A	20410	3	302	ALALLSPWVVDGTRHRGAGGG AHPGGSGRTGAHRGGGRLRHG GLQVPSPAPREGS*GPARNRAQ RRAVDRTQ*ECSSKEYYT*RLV PPPLGHSHSPE
20294	50662	A	20411	2	415	
20295	50663	C	20412	1	1230	
20296	50664	A	20413	238	1765	VTAYHAATMNEVSVIKEGWLH KRGEYIKTWRPRYFLLKSDGSF IGYKERPEAPDQTLPLNNFSV AECQL\MKTERPRPNTFVIPCP QLTNIIRGTL/HTLVSPNQREWE NPPYQVVPQQPSRGGPKARTP WNNKCGSPK*LSHD*ENGSGGS ASHG/RKVTMNDSTYLNLLGK GTFGKV\ILFRKKATGR*FA\MK \IFRKKVINAKD*VAHNIQPRAG VLPEHPGNPFLQLR*KYAFDP TTRPVPL*MEYA\NGGELFFHL SRERV\FTEERA\RFYGAEIVSA SEVTWHSRGRGNTRDNQSWKT LMLEQKMAHIK\ITDFGL\CKRG ASSDGAT\MKTFCETPEYLAHE \ILEDNDYGRAVDWWGLGVVM YEMMCGRLPFYNQDHERLFELI LMEEIRFPRTLSPEAKSLLAGLL *KDPKQRLG\GGPSDAKEVME HRFFLSINWQDVVQKKLLPPFK PQVTSEVDTRYFDDEFTAQSITI TPPDYDSLGLLEAGPADPASP QFSYSASIRE

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20297	50665	A	20414	192	866	LSCMRMLVLGQNPTLDSIDRS GVRSKCRIFNKLRESFHYNsAE LTISVNMSYNCCSGNFSSRSCG DYLRYPASSRGFSYPSNLVYST DLCSPSTCQLGSSLYRGCQEIC WEPTSCQTSYVEVQAPAKTSC YRPKNLPCSASPCKTTYs\GSLG FGSSSCRS�GYG*GSCYSVGCG SSGFRSLGYGGCGFPSLGYGVG FCRPTYLASRSCQSSCYRPTCGS
20298	50666	A	20415	312	1420	RSHSNAVPSVWNLTLPLDSGPH QSPASTTGPCNTNTERSSVPMSCS PPACPTQCVLCSCTEGQIYCG TTCPEPGCPAPLPLPDSCCQACK DEASEQSDEEDSVQPLHVVRHP QDPCSSDAGRKRGPPTAPTGL SAPLSFIPRHFRPKGAGSTTVKI VLKEKHKKACVHGKTYSHGE VWHPAFRAFGPLPCILCTCEDG RQDCQRVTCPTETP\CRHPREK WPGKCKICPEDKADPGHSEIS STRCPKAPGRVLVHTSVSPSPD NLRRFALEHEASDLVEIYLWKL VKDEET*GSGEVKYLAQGHTA RIFHLTQIKKVRKQDFPERGTA LPTARWPPRRSLERLPSPDPGAE GHGQSRQSDQDITKT
20299	50667	A	20416	17	1008	KSGARSLQPQFLRAPEDGGPLS LPNAAMARGPKKHLKRVAAP KHWMLDKLTGVFAPRPSTGPH KL\RECLPLIIF\LKDQTLsNALT GD\EVKKI\CMQRFIK\NDGKVRT DITYPAGFMDV\SIDKTGREFP VL/YLIDTQGVRFCL*HRIYTLR EGQSTSLCKVRKILLWAPKGIP\ HL\VTH\DA\TIR\YPDPLIQGE MNTHSRLI*KTGK\IT*FPSKFDH LVTCVMVT\GGA\NLGRNWVLI TQQRSTLGSF*PLVHVK\ DAN GNKLLATSDFSNIF/VVIGKGNK PW\ISL\PRGKGIPPHHLEERDK RLAAKQSSWVKWGPWVTWSD
20300	50668	A	20417	1	1377	
20301	50669	A	20418	1	2178	
20302	50670	A	20419	158	250	

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20303	50671	A	20420	1	860	MDQTVKSLMASEEEYSTKEEK YEKEMKLLEEKLEAETRAEF VERSVAKLEKTTDDLEETLASA KEETWRFIRPGTRPYWNSATCF LLPGHKMAAEVHKLNPVSEH DQERWHDAFGNGGADNHSL QASTRRGGPLSQELLQSLAASL AAGGLTALSAEFTIGKGELMAH DVLWGCAPDEYDDLISGTCSHL PKGKTHDVLTGSDDGHSNTS LAWGAGVQFNPTESVAIDIAYE GPGSGDWRTDGFIVGGLFCGV NMAVKIS\GVLKDG TGKPVQN* TIQLAKARNSTTVVNTLASEN PDEAGRYSMDVEYGYQYSVILL VEGFPPSHAGTITVYEDSQPGTL NDFLCAMTES\ DARPEALGRFG LYWWKEVARNAS\AVGQNTA AAKKSASDASTSAREAAATHAV DAGGFKNAQARTSSPDKAGSA GFKQGFPRGGNGINKRAT*RIK KVACR*SLMASEEEYSTKEEKY EKEMKLLEEKLEAETRAEFVE RSVAKLEKTTDDLEETLASAKE ETWRFIRPGTRPYWNSATCFLL PGHKMAAEVHKLNPVSEHDQ ERWHDAFGNGGADNHSLQA STRGGPLSQELLQSLAASLAA GGLTALSAEFTIGKGELMAHDV LWGCAPDEYDDLISGTCSHLPK GKTHDVLTGSDDGHSNTSLA WGAGVQFNPTESVAIDIAYEGP
20304	50672	B	20421	34	800	
20305	50673	A	20422	130	368	RQVITTLYIPYRRRHLSPPDPEQ PLNHKQNRKVNHHGGTEFQVVV LPFPKMKINCYRRNQFFLFFST VKVPVGWSMVPLQAATAGAR L*NSDISPLKSQQTQDKFPSSKP PHIYIKK
20306	50674	A	20423	1	57	

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20307	50675	A	20424	85	874	GPRGLVSMAGGSVEVTPSTFTC YLRPPSASPPTPPSHPGLLPRSPA LCSLHTGARTLPLFGGGRCSA VLPPRPGP/RAGSGSGQRERFHR FQPTYPYLQHEIDLPTISLSDG EEPPP*QVPCHLQVR\DPKQQL\ ELNRE\SVGAPPNRTIFDSDLMD SARLGGPCPPSSNSG/ISAPTCYG \SGGRMEGPPP\TYSEVIGHLP GPSFQH\Q\QSSGPPSLLEGTR\ HPHTHSRP*RSAAIWSKEKDKQ KGHPSLGSPGGPGLGLRR
20308	50676	A	20425	3	250	ESVSATEDLAPDAAQGEDNSEI KELLARENEPLPACNGPAQAQPS PTTERAKSQEEVLPSTTPSPGG ALSPSGQPSSSVDA
20309	50677	A	20426	2	393	
20310	50678	A	20427	1066	1824	
20311	50679	A	20428	3	902	
20312	50680	A	20429	1	2163	
20313	50681	A	20430	1	1890	
20314	50682	A	20431	1	2882	MKQQLPVSYLQVIFNHWASRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTLPPTSLLLHFSAFHFFIYKC RAEGHKLKDLKNFLSAVKVM HESSKRVSETLQFIYYSEWYGH EELKAIWVWNNDLLWEDYEEKL ADQAVRTMEIYVAQFSEIKERI AKRGRKLVVDYSARH

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20315	50683	A	20432	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\ AKRGRKLV DYDSARHHLEAVQ NAKKKDEAKTAKAE EEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQPSPTTERAK\ VLPSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\ ASIQRTSAPPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\ LGTGTASPRTSLEI\ PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE

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20316	50684	A	20433	158	1830	QLQSKMKLFWLLFTIGFCWAQ YSSNTQ/SKGRTSIVHLFEWRW VDIALECERYLAPKGFQVQVS PPNENVAIYNPFRPWERYQP\ VSYKLCTRSQ\NEDEFNMVTR CNNV\GVR\YVDAVINHMCQ\N AVSAGTSSTCGSYFNPWKLRTF PAIP\YPGWDFNDGKC\KTGSGD IENYNDAQTQVRDC\RLTGLLDL ALEKDY\VRSKIA\EYMNHL\DI GVAGFRLDASKHM\WPGDIKAI LADKLHN\LNSNWFPAGSKPFI\ QEVIDLRVGEPNLKASDYFGNG RVTEFKYGA KLGTVIR\KWDGE KMSYLKKWG\EGWGF\MPSDR ALVFVDNHDNQRQ\HGAGGASI LTFW\ DARLYKMA\VGFM LAHP YGFTRVM\SSYR\WAKHSFKKG NDVNDW\VGPTQINNG\VIKEV TINPRH*LVGND\WV\CEH\RWR \QIRNM\VNFRNGSGMAQPFLQ NWYDNGSNQVAF\GRGNR\GFI VFNK*WPVIFI*LCKPGLPAGSY CDVISGDKVIGNCSAIKIPVSVD GKAHFSMSNSAEDPFLAIHAES KIVKFKIKCKSAKQKKKKKKG RPF
20317	50685	A	20434	3	383	
20318	50686	A	20435	1	378	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNSPSP GGKEAETRQPVVILLGWGG\SK DKNLVKYS AIYHKRKLLELLFD YEIEKEPPAFSLSSATVASCCTA TCWSSCRPVASAACV
20319	50687	A	20436	1	558	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNSPSP GGKEAETRQPVVILLGWGGCK DKNLAKYS AIYHKGCI VIRYT APWHMVFFSES LGIPSLRVLAQ KLLELLFDYEIEKEPLL FHVFSN G\VRHAVPLTCWELLQTRRFCR LRVVGTFIDSAPGDSNLVGGSA GLGSHPGARG

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20320	50688	A	20437	78	1237	CWSHSDTYWPRTPRPPPGRPG PVVHLAQPVLHPEAGIPEFWES GSPGQTRGAALVLTVHICVSEN SPSPGGKEAETRQPVVILLGWG GCKDKNLAKYSAIYHKRNTAT LQPPLTYMRGWGLFTGAPAD QYLIQIKRISQWLRGCIVIRYTA PWHMVFFSESLGIPSLRVLAQK LLELLFDYEIEKEPLLHFVFSNG GVMLYRYVLELLQTRRFCRLR VVGTFIDSAPG*QQPG*GLASGP GQPSWERRARPMLRLLLLVAF ALGGSSCFHVLLAPITALFHTHF YGQAYRTRALAWPELYLYSRA DEVVLARDIERMVEARLARRV LARSVDFVSSAHVSHLRDPTY YTSLLCRTSMRKLRLPKAIAPS HLCSQKINALKPSP
20321	50689	A	20438	3	427	
20322	50690	B	20439	101	1099	
20323	50691	A	20440	733	2228	

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20324	50692	A	20441	582	2595	PPPPVRRRDPGPAVRPAGAMA KKSAENGIYSVSGDEKKGPLIA PGPDGAPAKGDGPVGLGTPGG RLAVPPR\ETWTRQMDFIMSCV GFAVGLG\NVWRFPYLCYKNG GGVFLIPYVLIALVGGIPIFFLEIS LGQFMKAGSINVWNICPLFKGL GYASMVIVFYCNTYYIMVLAW GFYYLVKSF\TSTLPWATCGNY/ TWKHSPTCVEIFRHEDCANAS LANLTCQQLANR\RSPVIEFWE NKVLKLSGGLE\VPGALNWE\V TLGLLACWVLVYFCVWKGVK STGK\IVYFTA\THYPYVVLVVL LVRGVLLPGALDGIIYYLKPDW SKLGSPQVWIDAGTQIFFSYAIG LGALTVLGSYNRFNNNCYKDA IILALINSGTSFFAGFVVSILGF MAAEQGVHISKVAESGPGLAFI AYPRAVTLMPVAPI\WAALFFF MLLLLGLDSQFVGVEGFITGLL DLLPASYYFRFQREISVALCCA LCFVIDLFMG\TDGGMVVFQLF DYYASAGTTLLWQA\FWECVV VAWVYGADRFMDDIACMIGY RPCPWMKR\CWSFFTPLVC\MGI FILNVVYYEPLVYKQN\TYVYP WWGE\AMG\WPFALS\SMFLVP L\HLLGLPSLRAKGHPWLKRW QH\LTQPIWGLHPL\EELPRFRD ADVQGTLTHP*TPVSESSKVV\V
20325	50693	A	20442	1	363	MGKRGLILLIEACIAIAQPLQRW FVPPRAGMPVTYD/HSNSAAG SPPV*NARLCSPGEKVLCSRT GNFPHTPQEQA VPSAWNALPV QP*SH/GPSPMLVPCRCVCPMET RVQGSASPGGQG
20326	50694	A	20443	747	1389	LGAVQLCPPPCRPPCHRAALPGG LFPPPRPPHSPQAGPLHPQWTQ* PGSVGSPTQLSPEASRPQWPPT A\GSPRAGVHPGHGQA*SADISS AKQWTQVGPAQGGSKFGKT KVPWQSGPLGWDPGARAGQG VG*ETRGPSLQLAWSDEGEV/P GWRGSYRGHRRGP*PPAPWPW SGGHPGSPMEWPCPGTELQMR NRAGSRDLHSLGRAPPAATAPS

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20327	50695	A	20444	90	1181	RAEPHLQVPGVPGSAQKPQGT QMAPVSPRRGPQRGWHTLGAQ RLLPQAALSSPAFPQHPGGRWA PRRRGQSSQGHSPESLPSERAQP HWNHPQLLSPCTPLSCP*GGPR QA/EQAGDSGSGTWVGLGAAP SERGAPMSARHWLRAPGRRPIF LLSALW*TPAWGGGPAASRSP GGPSSRVVGCPLCPLAPGPVPS VE*RPMSTKDLPPSPR*KP/PA GPAPV*/SPKAVGIPAWERPPT PETEGAGGSCAERLLAPVEMAP VSRGQRRDPEPGSRHG/DPPTDT AALGGPRPPQHLPRTRQHWI* GPGAPPTDTAALGDLRPQSPGL LMELG\PISRDPHGRGPWQGPV GKLWPGGQGSCPQSPV
20328	50696	A	20445	2	957	IPSRKDHEKAEFEVHEVYAVDV LVSSGEGKVRVPPELAKRGD*E CSPDQMLLKLLFQAKDAGQRT TIYKRDPKQYGLKMKTSRAFF SEVERRFDAMPFTLRY*AMIVL GTSLTHRPTQEHFFLSLPA*TC SVHVLTPSLSLPISFSLKVM*KS NPKHDFCLRVGAILKYEQNGK T*WGVKDTSEYHLPCQAFED KKARMGVVECAKHELLQPFNV LYEKEGEFQKELHFGFPDYKISF L*VQKS*V*QRNFLSKHIFIFAIG EFVAQFKFTVLLMPNGPMRITS GPFEPDLYKSEMEVQDAELKA LLQSSASRKT
20329	50697	A	20446	85	266	

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20330	50698	A	20447	207	1759	LSQRALRLSPRARSFSLSPACPL PCLLALSLALSSRIEGLTTACG WGRETEAAAAQGKRGCSGGS KMSGEDEQQEQTIVD/DSL VVT KYKMGGDIANRVLRLSVEASSS GVSVLSLCEKGDAMIMEETGKI FKKE\KEMKKGIAF\PTSISGTIN *PI/CHFSPFERSD\QDYIPPRKGD LVK\IDLGVPCWMGFIANVASH/ SFVVDVAQGTQVTGRK\ADVIK AAHLCAEAA\RLRVKPGNQNT QVT\EAWNKVAHSFNCTPI\EG MLSHSLKQHVIDGEKP*FQNPT DKQK\RAHEKADFEV\HEVYAV DVLVKPQERARPKDAGQRTTIY KRDPSKQYGLKMKTSRAFFSE VERRFDAMPFTLRAFEDEKKA RMGV\VECA\KHELLQPFNVLY EKEGEFVAQ\FKFTVLLMP\NGP MRITS\GPFEP\DFYK\SEMEV\Q DAELKALLQ\SSAKSEKPPQKKK KK\KASKTAGEWPLVAFSAVLE TFRKWKLGGLVGPISPACCS CLHPPSHQTPRLCEVQFFFT
20331	50699	A	20448	1	3825	
20332	50700	A	20449	1084	2429	ARERSLRGSPAREREKERKCTA LSE*GEQMERKTNS*TKQTE*N RNEIGPRGAGPPGDAGSGRQPA LRPHVHKQTEKTTRVRTVLNE KQLHLRRTCYYAANPRPDALMK EQLVEMTGLSPRVIRVWFQNK RCKDKKKSILMKQLQQQHQSD K/SGEQPLGRRLESGGGCASAA VSACPFLGEPWEIQGELGAPDG VCLYLHASKASLGFEASYFVWD RGFSLSQWQPRVAGSGRCAEP KAAWQCAAPASRAGGLCTPSA AAERSPVEKEGSSDAIECAPPR KAMQTLNHSRPGAPVSKVAEK ARPNSSTYCLLLAPQSLQGLTG TPLVAGSPIRHENAVQGSAREV QTYQPPWKALSEFALQSDLDQP AFQQLGLLSAGGRSPRDTFRLG ARGPGAPARVPLHLPLPGVSAA PVSFSESGSLGNSSGSDVTSLS QLPDTPNSMVPSPVET
20333	50701	A	20450	133	276	
20334	50702	A	20451	2	205	WDTSS*SLRTPRSRQVSTRPRR KKEKLPSKGMFSSVSLPQVLTQ RHQRPTCSWSLCWQPQHLILLR S

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20335	50703	A	20452	182	411	GRAWPAPPTSVTPRLRSPAESP RWPSAEERSSLP/VRGRRPGYG* VSCCGPRAPPGVNGDALRSARP AQLPA*RPQRH
20336	50704	A	20453	786	1208	GVHRGTHGRQKWRPCAPRAQ HSWGPGGRLPAGCRG*AGSCA/ PSLGL*CGAGPQGWGRRDP*TR RRTPRRPPRGPRPRVWMAPPAR SHPWRAAPRSAGAAPRPLGLG GRSGRETRPAPGGELQRPAAAG PPLMSCGWRVVLA
20337	50705	A	20454	385	727	KAMSPVFPRHSKWDLDSLRLPF TSAALLSACKILKLKVDKNKM VATSGVKKSYI*STV*TTREDW TAGRQRTWRCIYSTTEEKEDSG *SPSKGNTEGRGDAT*TTTER*RS DTGL
20338	50706	A	20455	568	3382	HPGWVARGPGAGEGHAAGCG PARCQAGGPLQDGGCGGQGHR FGGGHVPEIKGGGFPHAGACAL EERQPR*QP*GVGKRGGGLFHA SSSPSSGGSRTPEAG*GGAVCR AGDLGHIDDAGDHGDSGK\KE RVEEEGGKPKHVLSTSGVQSD AREPGESQKADVLEGTAERLP PIRASGLGADPAQAVVSPGQGD GVPGPAQAFFPHLPLPTKVEAK APETPSENLRTGLELAPAPGRV NVVSPSLEVAPGAGQGA
20339	50707	A	20456	762	1245	LRQYSVKMRIVPTILLNFGADP DLRDIRYNTVLHYAVCGQSLAS LVEKL\LEYEADLEAKNKDGYT PLL VARY*QLIPKLVKFLEKKG ADVNASDNYQRTALILAVSGEP PCLVKLLLQQGGEICNEG\MVD SQLRNMFISMVLLHRYPQFTAS HGK\QKHAK
20340	50708	A	20457	346	608	PKRRGAPLPVIPQSAS*KPKLPM GRPPPPVPSVSPGPLPGSLAIAP HSLEPHLVQSSCLVPPKTKQS KRKPGRGAQAPTLPNATEFSVC RNDPKEGGRRSP*FPNRLLEPE APPRPSAGESPRPAAA/SPLPCSE EK/PTPQLCARERLAPSAAPPPP PRCGPAPLLEPSAWTPELARRA

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20341	50709	A	20458	340	889	SAPFSSGERTPGCPEASFPFGGG GGNARPSGPAPHPSSAS*KPKL PMGRPPPPVPSVSPGPLPGSLAI APHSPEQLVQSSCLVPPKTK QSKRKPGRGAQAPTLPNATEFS VCRNDPKEGGRRSP*FPNRLLE PEAPPRPSAGESPRPAAA/SPLPC SEEK/PTPQLCARERLAPSAAPP PPPRCGPAPLLEPSA/EAEEGGW GAGPLGRALPPPPPGKGLASGQ PGVRSDEKGDQRQPSGPRLC SAPAPRRS/PPRRRRPSNFVPED QPHYVPGSASAGPRRSPRPPRR ELGAPSHLP
20342	50710	A	20459	148	397	GHKELVTGTEAIELAHAYETCH AVPRTIAKLVPKTHLMSESEW RNLGVQQE/RQGWVHYMIHEP EP*HFGCSRRLTQGTQRK
20343	50711	A	20460	139	272	VLKPGGSYSFGSPSCNSSH*LIG FQKWKDVPCEDKFSFVCKFKN
20344	50712	A	20461	440	1167	ARDSLQLSMAQTSSYFMLISCL MFLSQSQGQEAQTELPQARISC PEGTNAYRSYCYF*WKTRET WVDADLYCQNMNSGKLGVC GSPRAEGCLFWPQLI*GGVGT* WTFNVLDLGLQ*PPKRTRRW WEQWGPLVSLQSSWGHWEPPS RCLNPG\Y\CVSLDLQSTRISRN WKDVPFVKDK\FSF\CKVQKT RGQAGKIQCLELTPAITNGVQK LNRTISPTQLNLVTLFSAEFALLI FNSFT
20345	50713	A	20462	3	322	
20346	50714	A	20463	1	420	DLYELVQYAGNIIPRLYLLITVG VVYVKSFPQSRKDILKDLVEMC RGVQHPLRGLFLRNYLLQCTR NILPDEGEPTDEETGDISDSMD FVLLNFAEMNKLWVRMQHQG HSRDREKRERERQVSWRCKCG TLQ\QIVLTG
20347	50715	A	20464	1	1446	

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20348	50716	A	20465	3	2564	LGAGAACCRLWGVAMPTTQQ SPQDEQEKLLEDAIQAVKVQSF QMKR\CLD\KNKRIGVRHKTML RNMLG\ELRTSMLSPKSYELY MAISDELHYLEVYLTDEFAGR KVADLY\ELVQYAG\NIYPQGF YLLVHSLSCNNVKSFPQSR\TDI LKDLVEMCRGVQH\PLRGLFLR NYLLQCTRNILPDEGEPTDEETT GDIRDSMDFVLLNFAEMNKLW VRMQHQGHSRDREKRERERQE LRILVGTNLERLSQVE/WCKCG TLARQIVLTGILEQVVNCRDALA QEYLMECIIQVFPDEFHLQTLNP FLRACAE\HQN\NVKNIIIALID RLALFAHREDGPG\IPADIKLFDI FSQQV\ATVIQSR\QDMPSE\DV VSLQVSL\INL\AMKCYPD\RD YV\DKVLGNNSGRIFNKLNLHI ATSSAVSKGNFTRLLGKLPVGH FTNNILT\VL\KLKHFHPLFGYFD YESRK\SMSCYVLS\NVL\DYNT EIVSQDQVDSIMNLVSTLIQ\DDQ PDQPVEDPDPEDF\ADEPEALV ARFIHLLRSEDPDQQYLILNTAR KHFGAGGNQRIRFTLPLVFAA YQLAFRYKE\SKVDDKWEKKC QKIFSFCPTKT\IALIKAEL/AQE LPLRTFSFKGGT*LA/AGELGFG NHG\TVAY\EFMSQGIFSVWKD/ EKSGDFPKAQLGWPFTFGSIGA LFERVEVLSVEEDSWNPLR\TQ
20349	50717	C	20466	23	385	
20350	50718	C	20467	16	435	
20351	50719	A	20468	1	436	
20352	50720	A	20469	1	747	
20353	50721	A	20470	1	864	

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20354	50722	A	20471	2	2138	VGRAAAAAA VAVPLAGGQE GSPGGRRGSRGTTMVKKRKG RVVIDSDTEDSGSDENLDQELL SLAKRKRSDSEEKEPPVSQPAA\ SSDSETSDSDEWTFGSHKHKK KGQARTLEQKGTMMKKQANKT ASSGSSD/RTDSSAESSAP\EEGE VSDSDSNSSSSSDSDSSSEDEE FHDGYGEDLMGDEEDRARLEQ MTEKEREQELFNRIEKREVLKR RFEIKKKLKTANKKEKKEKKK* QEEEQEKKKLTQIQESQVTSHN KERRSKRDEKLDKKSQAMEEL KAEREKRNRTAELLAKKQPL KTSEVYSDDEEEEEEDKSSEKS DRSSRTSSSDEEEKEEIPPKSQP VSLPEELNRVRLSRHKLERWCH MF\FFAKTVTGCFVRIGIGNHNS KPVYRVAEITGVVETAKVYQL GGTRTNKGLQLRHGNDQRVFR LEFVSNQEFTSEFMKWKEAM FSAGMQLPTLDEINKKELSIKEA LNYKFNDQDIEEIVKEKERFRK APPNYAMKKTQLLKEKAMAE DLG\D\QDKAKQIQDQLNELEE RAEALDRQRTKNISAISYINQRN REWNIVESEKALVAESHNMKN QQMDPFTRRQCKPTIVSNSRDP AVQAAILAQLNAKYGSGVLPD APKEMSKASVGQGKDKDLNSK SASDLSE\DLFKVHDFDVKIDLQ VPSESSEKALAITSKAPPAKDGAP
20355	50723	A	20472	438	709	FLSQSWIFKQIRASRTLFLVAFS SNTFTSCRSFCSSEAMGAGSG RSPQLQPRRRRNRPRAEPSNR AQTPTRTS/LRRCSLRPHRPCAR SR
20356	50724	A	20473	2	1315	ILQKRIGGFLDALVRNSQPARYI NDYQLSNYGLDMLGPSLDPAP MASEELQKDLEEVKVLLEKAT RKTEKSKIETEIKNKLQKKSQK KAELLDNEKPAAVVAPITGT KGGGGEERGGEAPTSNEAQAT EVRGGAGGGKDKDDGDRER/P RKTRGGRARTE*NNRHEQ*IQI KKRRETEKERRNEKGRRRHKT ATQKRRREERRARRVGEGTRK REQPAHEQEHA TTTHTRPPAP/R RTRKTQTHNRKERKKEE
20357	50725	C	20474	43	162	

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20358	50726	A	20475	2	363	YEPLDSNKRIGTSSSSYVLCLCS SLAIFSNFMGNLLSFCGVLKLLK SLACIH*RFFFN*A**VFIHSSRE Q*FINVCSSCPAFFNPERRNELY ASLLSFVPSALVPFEDNVSYLF VKSF
20359	50727	A	20476	505	2294	VYSDAKSIYCLLFAHSQRPPCV FNENDPQNSGTVHTVFLVGLTD HRHARAKIESWAGEAAPFTLV AASADKLFGDLHISKYCGRIAV SVFQFQQYCGLCDSTS/SLQQY CGLCGST*HSGSTVASVAGLHI VAVPWPLWQDFTLWQYRGLC/ AQDFTLWQYHGLCGRTSRVAV PWPLWQYFTLWQYCGLCGRTS HC/GQYRGLCGRTSHCGSTVAS VAGLHVWQYCGLCGSTSRC/E QYHGLCGRTS/RLWQYHGLCG RTSYC/EQYRGLCGSTSRCG/MY RGLCGRTSH/WWQYCGLCSSTS YCSRTVA\LWQYFILCSTSY/W QQYHGLCGNTSYCGILQLQQY SGLCSSTSYWGSTVASVAVLHI AAVLWPLRQYFILQQNRGFCG NTSYCG/SYFILWQYHGLCGST SYCG/SYFILQQYHGLCGSTSYC /EQYRGLCGSTSYC/TQYCGLCG SSSYC/AQNCGFCGNTSYCGSTS /VLQQYHGLCGSTSYCGRTV/V FCGSTSYWGSTSYCGSTVASLA VLHIVAVLCPL*QYFTTNKTKN KTKPGSCHLTYFGGAAGGPSL* APGGVAGTVGSASRSASWGLP EWICCLRDPKSLSPFYWGFEVW
20360	50728	A	20477	2	554	LSSTGGLHAGRLCCSPCLLVIPL KSSQHIF\RVL\NTNIRLGRRKNS PLPITAHLRVWARRYA\HVVLRL KADIDLTK\RAGEL\TEDE\VER VITH/ILQNPRQYKDPKTGFEEQ DKKDVK\DGKYSQVPSQLVWD NKLP*KTWEPTERRFRAH*/RGL RHFLGAFRVRGQAHQEPLGRR GRHRWVCPRRK

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20361	50729	A	20478	50	774	LFGVVYTGFC LGVW TAGVGGV PGPNFPRPILTLVRGP*GKGVG WVAGPGQLRPTGPWSI*VSHPT PPGPLSISYRAQAAGGQGPAP/I THPQGRQEP*RQLPPGGPLA/RH PPKAPDPARPHP/RQHRGPS/ST APKGRCWQHKQEPSGHPAGHT PGRPG/PPQAPPRPSPWVGPGPQ TPTPCP*DEPHRPPGLQPWRPFS PLAMAPMGRLQALPGLDQRGQ TVSPLRLLGALESLAWLPSAFIA
20362	50730	C	20479	156	908	
20363	50731	B	20480	1	804	
20364	50732	C	20481	278	551	
20365	50733	A	20482	169	1144	INYSLEKHV GALGRVLFSL*RA GCPGMGSTRERGLYL GKHRGS GGIW*ALAGP*KSRGDSVSLTQ GHTHVCSRSPR*ADSPPG/SHLS PVPHSVEVAGHVLVPATRAAV PCSASAGA*QSTYRTGVHQGNP TV*TK/PSRRPSGGVAK*FLPSA VRGEPGAKPLVDDLLPGWSLA THGQPPLVAAPGSGLWGRPAD A*GCETAGGSPCPRSTS RPSGPS GVQGCPLG*AGSGASASRSEPP GSTSCCPRAPT*PAAPCVPDWP AGDQWRSHGYLPPSREL*G/W MPPSRPATLPQLAFARQRQGNR FDAAFESSGEDFHQM PRVGRM
20366	50734	C	20483	31	90	
20367	50735	B	20484	48	197	

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20368	50736	A	20485	5447	5642	PRDMESCYNPGLDGIIEYDDFK LNSSIVEPKEPAPETADGPYLVI VEQPKQRGFRFRYGCCEGPSHGG LPGASSEKGRKTYPTVKICNYE GPAKIEVDLVTHSDPPRAH\AHS LVGKQCSKLGICAVSVGPKNM TAQFNNLGV LHVT KKNMMGT MIQKLQRQLRSRPQGLTEAEQ RELEQEAKELKKVMDLSIVRLR FSAFLRASDGSFSLPLKPVTSQP IHDSKSPGASNLIKSRMDKTAG SVRGGDEVYLLCDKVQKDDIE VRFYEDDENGWQAFGDFSPTD VHKQY AIVFRTPPYHKMKIERP VTVFLQLKRKRGGDVSDSKQF TYYPLVEDKEEVQRKRRKALP TFSQPFGGGSHMGGGSGGAAG GYGGAGGGGSLGFFPSSLAYSP YQSGAGPMRCYPGGGGGAQM AATVPSRDSGEEAAEPSAPSRT PQCEPQAPE\MLQRAREYNARL FGLAQRSARALLDYGVTADRR ALLAQQRHLLTAQDENGDTPL HLAIHGGQTSVIEQIVYVIHHAQ DLGVVNL TNHLHQTPLHLAVIT GQTSVVSFLLRVGADPALLDRH GDSAMHLALRAGAGAPELLRA LLQSGAPAVPQLLHMPDFEGLY PVHLAVRARSPECLDLLVDSGA EVEATERQGGRTALHLATEME ELGLVTHLVTKLRANVNARTF AGNTPLHLAAGLGYPTLTRLLL
20369	50737	A	20486	3	346	PQTITDELWVTLTVEVWDIST/ LFPGN*SHA/TLPSH*NLITLPL NANI/AIPQHALKGLKPVITRLL QHGLLKPINSPYNPILPVQKLD KSYRLVQNLRLINKIVSPIHPVV PN
20370	50738	A	20487	1	808	YGTSLLL PWQLITCPLPSH*NLI TLTPLNANI/AIPQHALKGLKPV ITRLLQHGLLKPINSPYNPILPV QKLDKSYRLVQNLRLINKIVSPI HPVVPNPPAFTSQITQAVSQAL GIQWNLHIPYHPQSSGKVERTN GLLKVHLTKLSLQLKKDWTVL LPLALLRIRACPRDATGYSR FEL LYGRFTLLGPNLIPDTSPLGDYL PVLQQAQQAANLLLPTDPQPH EDTLAGRSVLVKNLTPQTLQPR WTGPHFIYSTPTAVCLQDPPH

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20371	50739	A	20488	2	513	CCPIASEAQ*TITDAELWVTLTV EAQSLLRVFLSYLPTLTHKYGT SLLLPWQPITCPLPSR*NLITLTP LN/GQYPIQHALKGLKPVITRL LQHGLLKPINSPYHSPILPVLKP DKAYKLQNLRLIYQIVLPIHP VVPNPYTLLSSVPPSTTHYSVL DLKHAFFTIPLQP
20372	50740	A	20489	1	1893	
20373	50741	C	20490	1	1806	
20374	50742	A	20491	1	645	MTSGPQINQPKKHLTNFKSEPS DL/FPSSPGCSLPAED*RCPIALE AP*TITQARVTLIVEGKSVPLV NTEATQSTLPSFQGPVSLASITV VGIDGQASKPLKTPLLWCQLG QHSFMHSFLVIPTCPVPLLGRDI LTKLSASLTIPGLQPHLIATLLP NPKPPSCLPLSPHLNPQVWDIS TSLATDHMPITIRLKPNHPYPAQ RQYPIQHALKD
20375	50743	A	20492	113	328	LGSGAWGGGDLPWEINPLSSCS LLREKDLLTTSQPQTSPRNISP ILNRDPTVQLTWQPLPEPELW PKAL
20376	50744	C	20493	183	254	
20377	50745	A	20494	1	511	MWKGPKGLDMYGKSSVSPKTS DILGRDLLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTTSPRNISPILNR VSEVSDHAGTPALVLHP
20378	50746	A	20495	1	1108	MWESLELPGNIFNGFDQNADN DMDDEIQAEVISDGDDEFVGN WNKPRDLVPCILATLALTKRGQ DTAQTMASEGARPKHWQLPGG VGPVGAQKSRIEVWEPLPIFRR MYGKACMSRQKFAAGAGFSW YVPVAVVGAKVHDVNLHMLS FPSKWKLHTCMKFGAVTQIVTS LGRSSCSLLLEKDPMPVLRPTSP RNISPISNLTKETRFIRGPKTPAP VTDWEGSLPLVFNHCRDASLII HPGFRGVRPRDACLSPSPLAN LINLTFKVYNNRKKLQFLAFTV RQTSAMSPAHKNFQTPEPQRP IPPEPPPGACYKC/HEIRPPGQG MPAAQDSS*ATS/LSVRDPTGN WTVQLTWHPLPEPELWPKAL

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20379	50747	A	20496	128	302	TAAARHSSRTSSPRSLLQVLEI WPSGQGMPAAWDSS*AASHL WQPLPEP\LELWPKAL
20380	50748	C	20497	80	106	
20381	50749	A	20498	196	575	
20382	50750	A	20499	1	505	TKETRFIRGPKTPAPVTDWEGS LPLVFNHCRDASLIHPGFRGVR PRRDACLSPLANLINLTFKVY NNRKKLQFLAFTVRQTSAMSP AHKNFQTPEPQRP GIPPEPPPPG ACYKC/HEIRPPGQGMPAAQDS S*ATS/LSVRDPTGNWTVQLTW HPLPEPELELWPKAL
20383	50751	A	20500	372	563	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQT\TSRNISPILN/PEK KETRFIRGPKTPAPVMD
20384	50752	A	20501	96	505	WS*QP*GLGSHRHRRRRHHRSS SSSSSSSSSSSKSNSDWQPLPEPL ELWPKAL
20385	50753	A	20502	79	207	
20386	50754	A	20503	583	736	
20387	50755	A	20504	99	246	DLIFHQRHSVSAESLTMHGLNN *QTSKR VVQGTWQPLPEPLE LWPKAL
20388	50756	A	20505	654	719	
20389	50757	A	20506	71	951	LRSGDLPWEI/NPLSSCSLLREK DPPTTSGPQT\TSRNISPISNPR/ PKETRFIRGPKTPAPVTDWEGS LPLVFNHSDTSLIHPGFRGVR PRRDACLGPSPLAASPTFLGKG PAAPRQTELGPNSSASAPPPYN PFIASPPHTWSGLQFPSMTSPPP PAQQFTLKKVAGAKGIVKDLIN LTFKVYNNRKKLQFLASTVRQ TPATSPA HKNFQTPELQQPGVP PEPPPRGACYKFQKSGHRAKEC LQPRIPPKPHPICVGPHWKSDCP THLAATPRAPGTLAQGSLTPSQI

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20390	50758	A	20507	1	1010	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQLHPLDPWHE LLRAQELQGATNHKGYSHAEH EHAGLGVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKKNGEKRTRL QKRKKGMPPHPAYEDLNIAAIT LPANVVLHQPSGFRITSGQLDPV WWSLDTDAHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQTTSPRNISPISNPRQRRQV LSMDPKLRHRSRTGKAAPWC LIIAGTPL
20391	50759	A	20508	3	539	IVDDCGGAFTMGVIGGGVFQAI KGFRNAPVCRLLEAPLFIYSCS RSVSPTVNVSSERAESRPTLFM AVSLHMAWCLAHIGIRHRLRG SANAVRIRAPQIGGSFAVWGGL FSTIDCGLVRLRGKEDPWNSITS GA\LTGAVL\AARSAPLAM\VGS AMMGILL\ALIEGVSILL/TR*T ATV
20392	50760	A	20509	3	778	GEQRAALPPAPKECTHPNVTNT LVQAESSDAGVRLRWGRGLTA RPDASAMEEYAREPCPWR\IVD DCGGAFT\MGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APSTTGSAFVWGGLFSTIDCGL VRLRGKEDPWNSIT\SGA\LTGA VL\AAP\SGPLAMGGLQQ*WGG ILSAPHLRAFGILL/TR*TA\QQF RKWAPNSLEDP\SQLPPKDVTP APGYPSYQQYHLRKPLATMGA TSSVPFPDGLTKGRAGFPG
20393	50761	A	20510	1	231	LRWRVWSLSLLMFRCVRSFFLL VGSWSRWRFRSEAADLCGECYS S*GSTSGVVRFSRWACGLAGLR SEAADLAPPTSC
20394	50762	A	20511	318	494	

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20395	50763	A	20512	1	1234	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPQQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGSLLRSQM PCADLSILKEAAETLDSTSTRNS AFLGNTHDEAPIVHVFIPLAYS TNIWSLIFNPTTMIMMCSRDLW SSCENKRVDLAFGLVYSGTPVQ KLEQMKFSPQLGCNHFESKDR NDFLFAPEEIEKDPQGESLLCDF MTKTPKAMATKAKIDKWDLIK LKSFCTAKETTIRVNKQPTWE KNFAIYPYDKGLISRIYKELKQI YEKKIKQPHQKVDERRLLNLTT DRLTGEKAYRFIKVQVLRVTQ GMKIQRRARSKELQGDGDEIQR WKRLHSPPRLLGEEPRIIFKLD SANDMHKSAPFSSLQSPLWHQP VMQEVERQYKEKKDLVREGG KCRCQGRPGKVVLTELSLEAR GGWMEDIPSRRTSKCGPWELV SHCVQNWWVLGLTDFKNEAS DPRGVKLQFTVSVTALKAAAR LELLVLPGLLVVSLASGVKLQT FAVSVTAHKRSVDPKTEGAGS GLGQPRKGLSQCSSGPKG*YPE STKNLKNKFTRKSSNNPIKRLMK
20396	50764	B	20513	1	531	
20397	50765	A	20514	1139	1562	GALQPTAALWEPLSGLAKARA GTLSLQGSVEGVA*AGTGAAC GACGPDGVPGGRLGGPRTGS SRPALSHFITEEDKDQRVQDQL GGVWHRMEIHEQHVKGKQEE GDVEDHIPGEDHEGGGEERHIV PKQLLVLDRLPK
20398	50766	A	20515	1	1597	
20399	50767	A	20516	461	1601	

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20400	50768	A	20517	1	914	MNNLRRAALRAVTLTAKVCSF TPEPARPQTHQKEETPNTSEHQ KEQTPDTPPLRTVLTARVHGFI LEVSETKNPPIDTPATREAEGL RSRLAVYSTRDSPCVACSGSYT QAQGS LGRKFQDPVSLFEDLTK NTPEPNLRPITSKPVLVQETLSN FALFLKESNGP\VKVWGS\IKG LT*KALHGF\HVH\EFG\DN TAR LYQVQGP HF\NPLSQKTTVGPK\ DEESH C*DLGQCDCLTKNGVA DVSI*RFCESHSSGDHCII GRTL VVPWKKPDDFGQRVGNE\ESSK TGNAGKSVWPCGVNWIAQ
20401	50769	B	20518	8	173	
20402	50770	C	20519	13	180	
20403	50771	A	20520	3	486	VTETWKCAGIPHYRSFESC/IW NPVINSRMDYAGPVC FKNADI GRCAHEKLRED*DGAAPGEIGI QPEADATPYFATPTPVLTHGPC AAESE PALLIGSKQFGLSRNSHI AIAFDDTKVKNRLTIELEVRTE AEFRLLFYMARINHADFATVQL RNGLPY
20404	50772	A	20521	1	459	
20405	50773	A	20522	2	239	SDSSGSREVD PVAATTMPGAA GVLLLLLLSGGLGGVQAQR PQ QQRQSQA HQQRGLFPAVLNLA SNALITT NATCGEKGPEMYCKL VEHVPGQPVRNPQCRICNQNSS NPNQRHPITNAIDGKNTWWQS PSIKNGIEYHYVTITLDLQQVFQ IAYVIVKAANSRPGNWILERSL DDV\ EYKAWQ*H\AVT\ DTEAL TP*PN*SPELGHRQNAQD*EVI CTSFYSKIHPLENGEIHISLINGR PSADDP SPELLE
20406	50774	A	20523	2	445	
20407	50775	A	20524	1	2765	MGRRRLVWLCAVAALLSGA QARGTP\ PWRGLR/LPGASRYSL YTTGWRPRLRPGPHKALCAYV VHRNVT CILQEGAESYVKA EY RQCRWGP KCPGTVTYRTVLRP KYKVG YKTVTDLAWRCCPGFT GKRCPEHLTDHGAASPQLEPEP QIPSGQLDPGPRPPSYSRAAPSP HGRKG PGLFGERLERLEGDVQ RLAQTYGTLSGLVASHEDPNR MTGGPRAPAVPVGFGVIEGLV GPGDRARGPLTPPLDEILS

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20408	50776	A	20525	2	363	RFTKVEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPINFILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL
20409	50777	A	20526	1	1566	
20410	50778	A	20527	1	1604	MAILFEMRLGQQSSAKFPGFQS SFFPVPVKNKPSGKFKRDRAHFS STRLLWPDCQISQLWGGYLRK KGSSPSQGLIDKTPSPWKKAPR ERGGCGRSFSRKHPCLTALKR AADLPAQHSSSAKDTSQKGPTD TSYRRALAGIWQVPLGRSFQK KDQAAIFAVVQPLQVIPRQTGS GVDLQQTSADWQQRGLTVRR KTNKQKGIACSLKDPIRGHQHQ RPKDHNFSPAREQNWTENEFD KLTEVGFRRWVITNSSELKKHV LTQCKDAKNLERSLEELLTRIPS VEKNINDLMELKNTARELREA YTSFNPIDQAEERISVIEDQFN KINREDKIREKRIKRNKQSLQEI WDYVKRPNLQLIGVPESDKEN GTKLENTLQNIQENFPNLAREA NIQIEI\QRTTPQRYSLRRATPRH IISV\RFTKVEMKEK\MLKAVRE KGR\VTHKGKPIRLTTADLSAET LQARRQSGGQYFNIL*RKGFQFQ R\ISYPA\KLSFISEGEIKYFIDK\Q MLRDF\VTTRDWPALKEHQAC
20411	50779	A	20528	58	1081	SSMAKPC\GVRLSGEARKQVEV FRQNLFQEAEEFLLR\FLPQKII Y\LNPAFQEDFPFNVA*/LLNLS SGAPLGHPPIPRPLHPKDDMEAE TDKAGRRKEVP*SVGFFPWGN* GKFL\SLVCPGLKPE\VWDFSKR NCILGDLHWIQTDPSPRFEDGN DFGGSQSRKKVLEKG*MPVKT KV\EAQ\QTTISKY/FSSERGDAC GPRPPKETHVMDYRALVHERD EAAYGELRAMVLDLAFYAEI VKSSGIGAHVSFKVQNIHSSYC SGPTVSPTCVTGLPASQSPDSG AQLASSSGSHTCAAGGAACQS RALRLHSSALGWSMGLGTVEQ GAALIEEVQAAQEPTG

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20412	50780	A	20529	1632	1932	KEGCELCRCCCRPGPPASSHGQ PHHVFPF/VLSMASPWA VSPSS VNVSQFFIC/TCQDAKTEWLDC KHVVFGKVKDGMNIVEVMEH LGSKNGKISNQQEDHHC
20413	50781	A	20530	245	740	GAWKARSDCSSNP*NYVNRLE LFADKVPKTAKEF\QALSTGEK GFGYKGS\FHRIIPGF\TCQSGD FTRPYSIGGKSHLPGRNLMTRT FILKHTGPGILSMANAGPSVNV SQFF\CPAKMPRTEWLDCCKHV VFGKVKDGMNIVEVMEHLGSK NGKISNQQEDHHC
20414	50782	A	20531	135	1427	GKPTFASRQQPLAECEPASSAL QRRWLWRWRWWLRRRRRQR RSSGSCQGQPAGPLGGPPANRG AAPQGSMA MNYN AKDEV DGG PPCAPGGTAKTRRPDNTAFKQQ RLPAWQPILTAGTVLPIFFIIGLI FIPIGIGIFVTSNNIREIEIDYTG EPSSPCNKCLSPDVTPCFCTINF TLEKSFEGNVFMYGLSNFYQ NHRRYVKS RDDSQLNGDSSAL LNPSKECEPYRRNEDKPIAPCG AIANSMFNDTLELFLIGNDSYPI PIALKKKGIAWWTDKNVKFRN PPGGDNLEERFKGTTKPVNWL KPVYMLDSDPDA*WIHK\DDFI VWMRTAALPTFRKLNRLIQRK SDLHPTLPAGRYSLNV\NAYYP VHYFDARKRMIMSAISWMGGK NPFLGMAYFAVGAI SFHLGVAL LGINHKYRNSNTADITI
20415	50783	A	20532	1	370	
20416	50784	A	20533	1	1104	LREFANFDFDIWRKKYMRWM NHKKS RVMDFFRRIDKDQDGK ITRQEFIDGILSSKFPTSRLMSA VADIFDRDGDGYIDYEFVAAL HPNKDAYKPITDADKIEDEVTR QVAKCKAKRFQVEQIGDNKY RFGDSQQLRLVRILRSTVMVRV GGGWMALDEFLVKNDPCRAK GRTNMELREKFIADGASQGM AAFRPRGRRSRPSSRGASPNRST SVSSQAAQAA\SPQVPATTTPK GTPIQGSKLRLPGYLSGKGFHS GEDSLITTAARVRTQF\ADS KEGLPSRPGSSSLEAKFGSR\AS SRRGSDASDFDISEIQSVCS DVE TVPQTHRPTPRAGSRPSTAKPS KIPTPQRKSPASKLDKSSKR

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20417	50785	B	20534	527	4627	
20418	50786	A	20535	37	315	
20419	50787	A	20536	1314	1577	HGSGSAPTCRWPRQTQGRCREIC ADGFSGVMRNCTG*EAASGR* CKSFVHVYLQLRCACSVCHSA GSDSFQLQRSPHTPSTCTHALV
20420	50788	A	20537	1	1652	MQATKTESGRNGKPGQPSNRC HYLLNQGWVANSKGGRTNIP DKELKSGDDPENVHITSFYQLA LAAFPRGRARDLQLAMTEPPHP SVGSCAARASLTSAAPCSTAPSP INHPKAEECGCTARDWQAAPP AARVRDPLGEASWAPSEYVC NCSVVGSLNVNRCNQTTGQCE CRPGYQGLHCETCKEGFYLN TSGLCQPCDCSPHGALSIPCNSS GKCQCKVGVISICDRCDGY YGFSKNGCLPCQCNNSARCD ALTGACLNCHENSKGNHCEEC KEGFYHSPDATKECLRCPCSAV TSTGSCSIKSSELEPECDCEDG YISPNCNKCENGYNFDSICRK CQCHGHVYLISTPKICKPESGEC INCLHNTTGFWCENCL*GYVH DLEGNCIKKEVILPTPEGSTILVS NASLTTSVPTPVINSTF\TPT\TL* TIFSVSTSENSTSALADVSWTQF NIILTVIIIGVVLLMGFEGAGY MYRENQNRKLNAPFWTIELKE DNISFSSYHDSIPNADVSGLVED DGNEVAPNGQMTLTTPHNYK
20421	50789	A	20538	1	177	
20422	50790	A	20539	1	480	
20423	50791	A	20540	410	896	FSCLKRMHIKAMPEDAKGQDW IALVKAIAAAAAAKNKTGSKPR TSANSNKDKDKDERKWFKVPS KKEETSTCIATPDVEKKEDLPTS \SETFGLHVENVPKMVFPPQPEST LSNKRKNNQGNFQAKRARLN KITGLLASKAVGVDGAEEKED YNETAPMLEQV

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20424	50792	A	20541	1	1526	LKDEEDFFDFKAGEEVLARWT DCRYYPKIEAINKEGTFTVQF YDGVIRCLKRMHIKAMPEDAK GQVKSQHPLSWCCPIDPAGSCN QSMGSEDWIALVKAAAAAAA KNKTGSKPRTSANSNKDKDKD ERKWFKVPSKKEETFNLLLATP DVE/RRKEDLPTSS/EKHL*GLH VRRNVPKMVFPQPESTLSNKRK NNQGNS\FQAKRARLNKITGLL ASKAVGVDGAEEKEDYNETVA PMLEQA\ISPKPQSQKKNEADIS SSANTQKPALLSSTLSSGKARS KKCKHESGDSSGCIKPPKSPLSP ELIQ\VEDLTLVSQLSSSVINKTS PPQPVNPPRPF\KH\SERRRSQR LGTLP\MPDDSVKVVSSPLSSPL D/EGKVFS/LSSSSKISQESSS/IPE VPDVA/HICPLEKLGPCLP\LDLS RGSEVTAPVAS\DSSYRNECPRA EKEDTQMLPNPSSKAIDGRGA PAAAGISKTEKKVKLEDKS\STA FGIRSWDFSALLMKIPSYSPISLS GLPES
20425	50793	A	20542	363	1187	FHITMCGICCSVNFSAEHFSQDL KEDLLYNLQKRGPNSSKQLLKS DVNYQCLFSAHVLHLRGVLT QPVEDERGNVFLWNGEIFSGIK VEAEENDTQILFNYSCKNES EILSLFSEVQGPWAFIYYQASS HYLWFGRDFFGRRSLLWHFSN LGKSFCLSSVGHPIWNWQISG KKFQHLDDFRIDLKSTVISRCIIL QLYPWKYISRENIIEENVNSLSQ ISADLPAFVSVGSQMEGQTVSL EKPVVPLNMDVATSWHWETH AVFFPCATYR

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20426	50794	A	20543	1140	2372	CCHKLHWRLIAVIFPMCHLQER YFKSFLLMYT*KEVIQQFIDVLS VAVKKRVLCCLPRDENLDSQME VLENV**GKANVGNPVFWGGL D/CPWLLATLLDRHIPLDEPLVL LNVAFIAEETMPTTFNREGNK QKNKCEIPYPKNFSKDVA ADSPNKTCQC\PDRTGRAGLK ELQAVSPSRIWNFVEINVS LQKLRRTRICHILIRPLD'TVLDD IGCAVWFASRGIGWLVAQEGV KSYQSNKVVLTGIGCRWSNL QGYSPSSVSFAKSHGLGRIGIKE IMMELGRISSLEILGRDDRIVIG DHGKEARFPFLG*/RMLSPFLNS SARFGKANLDFTPRGIGEKLPF NALQPVELG\LTASALLPKRAM Q\FGSRIAKMEKINEKASDKCG RLQIMSLLENLSIEKGTCL
20427	50795	B	20544	70	464	
20428	50796	A	20545	18	552	
20429	50797	A	20546	1	1257	
20430	50798	B	20547	223	342	
20431	50799	A	20548	9	5293	KIHRHRLSPATEKGAASSGEGD KDPPPPAHEDIAVKGTATAAGT GPGTGAAAAAAAAAVPPHPNI RALQTQAPQQIPRGVQQPLED RIFTPAVSAVYSTVTQVARQPG TPTSPYSAHEINKGHPNLAATP PGHASSPGLSQTYPYSGQNAGP TTLVYPQTPQTMNSQPQTRSPF FPKGLKIQPPRATIPNSKSFPFV PGAQTPTAVYQG*FRHIMM\V NHLPLPYPVPQGPQYCIPQYRH SGPPYVGPPQ
20432	50800	A	20549	1	78	
20433	50801	A	20550	1	2805	MAKGFYISKSLGILGILLGVAA VCTIIALS VVYSQEKNNANSS PVASTTPSASATTNPASATTL QSKAWNRYRLPNTLKPDSYRV TLRPYLTPNDRGLYVFKGSSTV RFTCKEATDVIIHSHKKNLTLS/ QGHRVVL RPPDIDKTELVEPTE YLVVHLKGS LKDSQYEMDSE FEGELADLAGFYRSEYMEGN VRKV VATTQMQAADARKSFPC FDEPAMKAEFNITLIHPKDLTAL SNMLPKGPSTPLP
20434	50802	A	20551	1	239	
20435	50803	A	20552	1	654	

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20436	50804	A	20553	161	3193	GSLSRLPTITMAKGFYISKSLGI LGILLGVAAVCTIIALS VVYSQE KNKNANSSPVASTTPSASATTN PASATTLDQSKAWNRYRLPNT LKPDSYQVTLRPYLTPNDRGLY VFKGSSTVRFTCKEATDVIIHS KKLNFPALSQGHRVVLRGVGGG QPPDIDKTELVEPTEYL VVHLK GSLVKDSQYEMDSEFEGELAD DLAGFYRSEYMEGNVRKVVAT TQMQAADARKSFPCFDEPAMK ARF\NITLIPPQGT
20437	50805	A	20554	3	429	
20438	50806	A	20555	3568	4012	VLSTSPGTELNPPISPLAVNSTE LLKGELSLSSLGVLSLSDTSVPN SVSNSFLLGLRKLGRGVGISC NALSALDLAACNFSLMRPLME NSAKPVLEVEGIGG/TAFDAGA GIALSDHFIKLISWYDNEFGYSN RVVDLMAHMASKE
20439	50807	A	20556	1	1211	QTAASSFASPGEPHRSNTMGKV KALVNGFDRIGRLVTRAAFNSG KGDIVAINDPFIDLNYMVYMFQ YDSTHGKFHGTVKAENGKLV NGNPITIFQ\ERDPSKIKWG*H\G AEYVV\ESTGVFTTMEKAGAH FAGGSQKGHSSFAPSTEAIMFM MKVNYEKYDNSLKISNASCTT NCLAPLAKVIHDNSGIVERLMI TVHVITTTQKTVDGPCRKLRPD GHRALQNIIPASTSTAKAMVKV IPELNKKLTGMASHVPTAKVLV VDPTCH/LGKPAKYVDIKKMM KQASEDPIKGILGYTEHQIVSSD FNSDTQSSTFDAGAGITLNDHF VK\LISWYDNEFGYSNSVVDLM AHVASKELSGYSLKVSFAVQK LFSLIRSNLSIIAFDAIVFGVFVM KSLPVSICRM
20440	50808	A	20557	1	300	PTANVSVDLTCLRL*KPAKYD DIKKVVKQASEGPLKGILGYTE HQVVSSDFNSDTHSSTFDAGAG IALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
20441	50809	A	20558	1	3399	
20442	50810	A	20559	1	3126	
20443	50811	C	20560	298	435	
20444	50812	A	20561	1	888	
20445	50813	B	20562	1	4536	

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20446	50814	A	20563	37	3900	LGLGLSMLVGQGAGPLGPAVV TAADVLLLSGVGPAHGSEDIVV GCGGFVKSDVEINYSLEIKLYT KHGTLKYQTDCAPNNGYFMIP LYDKGDFILKIEPPLGWSFEPTT VELHVDGVSDICTKGGDINFVF TGFSVNGKVLSKGQPLGPAGV QVSLRNTGTEAKIQATATQVPG GKFAFFKVLPGDYEILATHPTW ALKEASTTVSVTNSNANAASPL IVAGYNVSGSVRSDGEPMKGV KLLFSSLVTKEDVA
20447	50815	A	20564	1	310	EEETVPTTAGASPGPPRNKKNR ELRPQRPKNAYILKKSRIKKPQ VPKKPREWKNPEPSAAAS*GGE GQAHGGPAICPGQICALSQTPG LPGNSLSPRSPVGK
20448	50816	A	20565	3	267	
20449	50817	B	20566	267	560	
20450	50818	A	20567	1	429	LIGLDPEPLAEVDVISLEQGRRK QIERLGYPDQAKAPFQPKPKQK GRSSTASLVKRKRKVMDEE\NR VK*TIGNGPGLPKGCTLPACAL CPCQPAHFLTLCPVSLPSPVPQD KVRQSLQQHHKEAK/APKPTG ARPSALDRFVR

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20451	50819	A	20568	2	1951	FKPTVWQLRGVLHVDRLFVWA SMETAPKPGKDVLSKKDKLQT KRKKP\RRYWEETVPTTAGAS PGPPRNKKNRELRPQRPKNAYI LKKSRIKKPQVPKKPREWKNP ESQRGLSGAQDPFPGPAPVPVE VVQKFCRIDKSRKLPHSKAKTR SRLEVAEAEETSIQSLLRSEL LLAEEP\GFLEGEDGEDTAKICQ ADIVEAVDIASAAKHFDLNLRLQ FGPYRLNYSRTGRHLAFGGRRG HVAALDWVTKKLMCEINVME AVRDIRFLHSEALLAVAQNRW LHIYDNQGIELHCIRRCDRVTRL EFLPFHLLDTASETGFLTYLDV SVGKIVAALNARAG\RLDVMSQ NPYNAVIHIGHSN\TASLWESS YGREPLAK\ILC\HRGLGSGAVA \VDSYRHVTWATSGP*DHQLED LDFFARGRY\QPLEHSGPCPMG AGHLAFSQRELL/VLAGLGDVV NIWAGQGKASPP\SLDRPYFTH RV*GPVHGLQFCPFEDVLGVG HT*G\ITSML\VPGAGEPNFDGL\ ESNP\YRSRKQRQ\WEVKALL EKVPAELICLDPRALAEVDVISL ETGKRRKQIERLGYDPQ\AKAP F\QPKPKQKGRSSKA\TLVKKR RKVMIEDHKG/DKVRQSLQQQ HHKEAK\AKPTG\ARPSALDRF
20452	50820	A	20569	1	437	
20453	50821	A	20570	157	425	

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20454	50822	A	20571	207	1562	LVIVFFYPQHTAPGPPLTVLNQ AMHARGPHGQLSPALPLASSVL MLLMNLAHLGQPWMLGPLTW HISPFSLPVHRLALTHALGHTALP GLLLSLLLLPTVGWQQECHLGT LRFLHASALLALASGLLAVLLA GLGLSSAAGSCGYMPVHLAML AGEGHRPRRPRGALPPWLS PW LLLALTPLLSSEPPFLQLLCGLL AGLACILCLSPGPVGMCGFCG WVPGKEVAQRGEGPSNTKEPC THIAWPVAWAHPWLLLVLDR PPCPGQTDAAAGFRWLEPSERR LQVLQEGVLCRTLAGGMPVQ VVGTVAGLPVRPSSLP/SSSRPPI PGPPYVASPDLWSHWEDSALPP PSLRPVQPTWEGSSEAGLDWA GASFSPGTPMWAALDEQMLQE GIQASEVGSPIGAGVALTLPTS PPTPNRLQQLERMGFTEQAVV ALAATGRVEGAVSLLVGGQ
20455	50823	A	20572	460	916	AHSPRDHPWTVLNQAMHARGP HGQLSPALPLASSVLMMLMST LWLVGAGPGLVLAPELLLDPW QVHRLALTHALGHTALPGLALLS LLLLPTVGWQQECHLGTLRFLH ASALLALASGLLAVLLAGLGLS SAAGSCGYMPVHLAMLAGEG HRPRRPRGALPPWLS PWLLLAL TPLLSSEPPFLQLLCGLLAGLAY AAGAFRWLEPSERRLQVLQEG VLCRTLAGCWPLRLLATPGSLA ELPVTHPAGVRPPIPPPYVASP DLWSHWEDSALPPPSLRPVQPT WEGSSEAGLDWAGASFSPGTP MWAALDEQMLQEGIQASLLAD GPAQEPQSAPWLS\KSSVS*MR LQ\QLERMGFP/TTEAAVVALA\ ATGRVEGAVSLLVGGQSGTNET LVTHGKGGPAHSEGPAGPPWAN CPQHCLLASSVLMMLMSTLWL VGAGPGLVLAPELLLDPWQVH RLLALTHALGHTALPGLAPEPAAP AHCGLAAGVPPGHAEIPACLSP ARPGFWAAGSAAGRPWAVQCS RQLWIHACPPGHAGWGRTTP
20456	50824	A	20573	174	401	CTVVFSVLAELSCTSRFCPNMW TPLREPMTENGRWGLSVRVLE HGGNQSNSACGPEPPEGEMGS* LEED*LPALIP

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20457	50825	A	20574	450	1029	ATQLPPQPWQTPAALGWAAAT SLMPYRAPSPPARAQHPPALCL APPPPLWLQLPHLEASHSLVEA RPNPPVSTLAQQGIQPSRHLPR CPSLRPRQPPQQVP/PQPAAPT PTATITSTGPSLFASIATAPTSSA TTGLSLCTPVTTAGAPTAGTQG FSLKAPGAA\PAPPQQHPPPLPP PPPPPPAAAPPALP
20458	50826	C	20575	115	276	
20459	50827	A	20576	3	307	ASRLGPREGGARKNPGGPCSAT QYISVPSP/GAASFPVLGSQSLLT TVSPPLPA*/P/LAMAL*PRPLCA PGSPSRSPRLRSPLPPSFFSRGRR RLSLLQPWSE
20460	50828	A	20577	2	388	
20461	50829	C	20578	244	487	
20462	50830	B	20579	5	569	
20463	50831	A	20580	204	676	RTDQYPQRGETEELEGQLLPH RQLPGGLGAHRGPDACGLRD SSRGVPLAGSPLRVR*GRGHDL RQSGGVRPGGGSNRGLVVAGD ARGRAAPLAGGVPAADRSL PGVPAAREPHGTPAPDPDSAA EPGAVSTLRAEPTQPVVSTGC CSSTWN
20464	50832	B	20581	1	1413	
20465	50833	B	20582	60	224	
20466	50834	B	20583	8	2469	
20467	50835	A	20584	841	1436	HHQVPLPVGRERGGKRGPGSW ETCLSVLGPAIPPSEPWPVSPSW VHSLVPGEQALPLICSQPPMAP QWPETGPGPHLVHRTCVRCLN WQGMTRTRGYQAGPSSRRTIPT PAQLPAPLASLPPRQDPSSPAE PPSGRFSMEPWEPARHPPGSP AAPCSSHRIT/APPTPSLAAQPG/ PVGSNPPLSPEGLCLAGTPACG W
20468	50836	A	20585	1799	5195	SKGNGSPSTTQTQTPRAAPDGS LSEETPAGPPTCSVPASALPRQ QYAKSLPVSVPVWGFKEK RTE ARSSDEENGPKPKPASVDANTK LTRSLPCQGS�KRATSCERAGK AVGEEVSGYSLHGCSKERRRRP RLKKEGGSGEPGVGYLFISVLV NSNSELIRLINNAIKNDLASRNP TFMCLALHCIANVGSREMGEA FAADIPRILVAGDSMDSVKQSA ALCLLRLYKASPDLVPMGEWT ARVVHLLNDQHMGV

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20469	50837	A	20586	8	268	SRSSRTWSPICEKEKTKLQKQR EDELQKIHKL VQKRDFLVDDA EVERLREQEEDKEMADFLRIKL KPLDKVTKSPPI*QSQRAHL
20470	50838	C	20587	50	196	
20471	50839	A	20588	16	1263	SLSSRCMMVAEQGCALEPCQG LSHGAALGVLMVFP/VSSLQQ DQLDIIS\MAETT\MMP\EEIELE MAKIQRLREVLVRRESELRFMS FEEQYNEDHKKGVIDLFTADSL KTMTRLVTGVWLAYLAATASN PLQEGEHAGEQIGAGGCRSRLE GGALTWDPVLLPPVRISRMILL LLIPGELPGIAFKLMNPTKAEPM HMFIILEPFDLRKLMDDIQLCK DIMDLKQELQNLVAIPGCTRSM MLVSAQLLEGLRKLIIAEDKG ADMSRAQSRSKRPPKMLICLLV DVFFPEKEKTKL\QKQREG*AN PRRFHKL VQKRDFLVDDAEVE RLR\EQE\EDKEMADFLRIK\ LKP LDKVTKSPASSRAEKKAEPPP\S KPTVAKTGLALIKDCCGATQC NIHVSPHVGCPGPWGPPTLLS
20472	50840	A	20589	31	339	
20473	50841	A	20590	1	1179	
20474	50842	A	20591	1	1167	PARSMAATSLMSALAARLLQP AHSCSLRLRPFHLAAV/RGNLSL GQVGVQCCNHGLLQP*PPGLK* SSHLSLNEAVVISGRKLAQQIK QEVQRQVEEWWVASGNKRPHLS VILVGENPASHSYVLNKTRAAA VVGINSETIMKPASISE\EELLNL INKL\NDDNDVDGLLVQLPLPE HIDERRICNAVSPDKDVDGFHV INVGRMCLDQYSMLPATPWGV WEIIKRTGIPTLGKNVVVAGRS KNVGMPIAMLLHTDGAHERPG GDATVTISHRYTPKEQLKKHTI LADIVISAAGIPNLITADMIKEG AAVIDVGINRVHDPVTAGVPGL VGNVDFEGVRQKAGYITPVPG GVGPMTVAMLMKNTIIAAKKG AEA*RSEKVLKSKELGVATN

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20475	50843	A	20592	1	1963	MAASDVNCGACFAELQGNATA NTPGGTSHHHLAIHGSCDSDQ AKEAGRKRQPWPPDGRSEPAP DSHPHLSPEALGYFRRALSALK EAPETGEERDLMVHNIMKEVE TQALALSTNRTGSEMLQELLGF SPLKPLCRVWAALRSNLRTVAC HRCGVHVLQSALLQLPRLLGSA AEEEEEEEDGKDGPETLEEL VLGLAAEVCDDFLVYCGDTHG SFVVRTLLQVLGGTILESERARP RGSQSSEAQKTPAQECKPADFE VPETFLNRLQDLSSSFLKDIAVF ITDKISSFCLQVALQVLHRKLA QFCAHICNAVIGYLSARGSSVD GKPLLLFLRDQTSFRLLEQVLL VLEPPRLQSLFEEHLQGGQLQTL AAHPIANFPLQRLLDAVTTPEL LSPVFEELSPVLEAVLAQGHGP VVIALVGACRRVGAYQAKVLQ LLEAFHCAEPSSRQVACVPLF ATLMAYEVYYGLTEEEGAVPA EHQVAMAAARALGDVTVLGSL LLQHLLHFSTPGLVLRSLGALT GPQLLSLAQSPAGSHVLDAILTS PSVT\PSCAA VCLQNLKGTNIVA LACKSP*QPRVLKCHLEWSSLE GP/RRKIAAELGEQNQELAKEPP FGHHVARNVALTTFLKRREAW EQQQGAVAKRRRALNSILED
20476	50844	A	20593	55	393	
20477	50845	A	20594	150	379	

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20478	50846	A	20595	1	2408	MGVWGIPTPFMVVGLESPVGS SPRGQGS CVRLPQRRPDKSHAG ARTGPETLRERAQQSNKLPEW AEKGSHPARWSPNRGGRWTLP TARERRPSRALKARAAGRRQA KVADFRLPAAAPPEGAAQLRLE SERLPHQDEKEPSSYRGSCGSCP VTLRKMPYLGSEDVVKELKKA LCNPHIQADRLRYRNVIQRVIR YMTQGLDMSGVFMEMVKASA TVDIVQKKLVLYLMCTYAPLK PDLALLAINTLCKDCSDPNPMV RGLALRSMCSLRMSKLDQWGQ AEVLNFLRLRYQPRSEELFDILN LLDSFLKSSSPGVVMGATKFLFI LAKMFPHVQTDVLVRVKGPLL AACSSERELCFVALCHVRQIL HSLPGHFSSHYKKFFCSYSEPH YIKLQKVEVLCELVDENVQQ VLEELRGYCTDVSADFAQAAIF AIGGIARTYTDQCVQILTELLGL RQEHITTVVVQTFRDLVWLCPQ CTEAVCQALPGCEENIQDSEK QALIWLLGVHGERIPNAPYVLE DFVENVKSETFPAVKMELLTAL LRLFLSRPAECQDMLGRLLYYC IEEEKDMAVRDRGLFYRLLLV GIDEVKRILCSPKSDPTLGLLED PAERPVSNSWADFNTLVPVYG KAHWATISKCQGAERCDPKLP KTSSFAASGPLIPEENKERVQEL PDSGALMLVPNRQLTADYFEK
20479	50847	B	20596	330	2458	
20480	50848	A	20597	2	171	
20481	50849	A	20598	32	1040	LQLAKLGDWRMQALRHVHCR FTEG*FMYSL*LTFFPAGYQVT GVFMKNWDSL\DEHGV\CTAD K\DCED\A\YRVCQIL\DIPFHQV SYGTEVIFFYSSDFLNEYEKGR T PNPDIVCNKHIKFSS*SLCSKNL TGADAIATGHYARTSLEDEEVF EQKHVKKPEGPASWRNCLSVG WFLYTLGQRANIGGLREPWYV VEASPPSHSILQAPRTDHPALYR DLLRTSRVHWIAEPPAALVRD KMMECPPPRAPLFYVPCVLT L NQDGTWVWTA VTPDARVSPLQ FAVFYKGDECLGSGKILRLGPS AYTLQKGQRRAGMATESPSDS PEDGP\GLSPLL
20482	50850	A	20599	12	432	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20483	50851	A	20600	2	509	RLHSLLDGYYQAIKVLENIDLS TKSMYSRVPEC\QVTTYYYVGF AYSMMRCYQDAIRVFASILLYI HRTNSMFQRTKYKYEMIIMLN EQMHALLAIALTMYPMRI\DESI YLHLREKYVDKMLRMQNGDL QVYEELFRYSCTKFL*PVPPNY DTVHAHYHTESFLQSLRR
20484	50852	B	20601	8	1188	
20485	50853	A	20602	1	257	
20486	50854	B	20603	210	312	
20487	50855	C	20604	49	288	
20488	50856	A	20605	13	446	IPVRPTRPADDESEAAAYDPYA YPSDYDMHTGDPKQDLAYERQ YEQQTYQVIEVIKNFIQYFHK VSDLIDQKVYELQASRVSSDVI DQKVYEIQDIYEN\DAVFLILYK ELYRHIYAKVSFQSFSQYRCK TAKKSEEEIDFL
20489	50857	B	20606	77	611	
20490	50858	A	20607	1	1956	SLVDPRVRPRVRLASEAAMS YPAD\DYESEAAAYDPYA\YPSD YDMHTGDPKQ\DLAYERQYEQ \QTYQVIP\EVIKNFIQYFHKTVS DLIDQK\VDELQASPCLVIVID QERLYEDSRTIY*EQAWTKL\TE RFFKNTWPWGGWKPLVPQGLA MDA\VSFLDFYPKNYTYRHIYA KVSGGPSL\EQRFESYYNYCNL FNYILNADGSRSPNYPNQWL WGYLSMEFIYPVFSHF\SQYRW *DLPKKSEEE\DFLRSNPKIWN VHSVNLNVL\HSLVDKSNINRQL GGYTQAGGDP*ECGWGSMGR HSLYMM\LHYFSLVR/GFSRLHS LLG\DYQAIKVLENIELNKK MYSRVPRVPRSPTY\YVGFAY LMMRRY\QDAIRVFANILLYIQ RTKSMF\QRT\TYKYEMI\NKQIE QMHALLAIALTMYPMRI\DESI HLQLREKYG\DK\MLRMQK\GD PQVYE*LF\SYSCP\RFLAAVVP TYDNVHPN\YHKEP\FLQQLKG VFLDEVQ\QQGPAFKPIRSFLKL\ YTTHALLAKPGLASLDPHGRE FRDPRFLCLS\NHQG*RNVLVGP AGISSPWIGEISVSPQRVDLPTL NKDMIPHRGTPKVPQAVMGDF LHPVRSHKFGGA*SEPLKEGWG QRPWMIFTTHFREPVDVIIGQG
20491	50859	A	20608	2	413	

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20492	50860	A	20609	232	621	
20493	50861	A	20610	1	3590	MAPRKRGGRGISFIFCCFRNND HPEITYRLRNDNFALQTMENPA LPMPVVEELDVMESELDL TDKHREAMFALPAEKKWQIYC SKKKDQEENKGATSWPEFYID QLNSMAAGILEGVFVHIVITHC LQNQQQLLHDKQGNRHFICCL RSHQHPMLPACSNVHLSSFDRK TLCKDALCPLPASHVSRYLKRS LLALEKEEEEERSKTIESLKTAL RTKPMRFVTRFIDLDGLSCILNF LKTMDYETSESRIH
20494	50862	A	20611	203	3480	SHQEIEQNSAMAPRKRGGRGI AFIFCCLRNDHPEITYRLRND NFALQTMENPALPMPVVEELDV MFSELDLDPDKHREAMFA LPAEKKWQIYCSKKKDQENK GATSWPEFYIDQLNSMAARKSL LALEKEEEEERSKTIESLKTALR TKPMRFVTRFIDLDGLSCILNF KTMDYETSESRIHTSLIGCIKAL MNNSQGRAHVLAHSESINVIAQ SLSTENIKTKVAVLEILGAVCLV PGGHKKVLQA
20495	50863	A	20612	1	338	PGGALRVPDAPAGAEGQELCR SDFPVGAGVGDEEGVQCPAP AAHRDDTDLRGAA*EVQDAAG RRKQPDREQPAGAEAGAPHLPE RVPPG*RHGTCTDRGQARACG GPLAPE
20496	50864	B	20613	610	6429	
20497	50865	B	20614	28	280	

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20498	50866	A	20615	160	1397	VKMSAQESCLRLIKDFLFVFNL FFFALGSLIFC\FGIWILIDKTSFL SFVGL/AAFVPLQIW\SKVL\AIS GNLSPWGIALLGLCWGALK\EL RCLLG\LYFG\MLLLLFATQITL KSSSSNQR\AQLERSLR\DVVGK TI\QKYGINPE\ETAPEEN\WDYV QSNLRWCGWHYGRDWFKVIL RGNGSEAH\RVTRS*YNFMAT* NSTILNKVIVHQLTRLEHLARS HSAD\ICAVPAESHITRKG\CAQ GIQK\WLHNTLIFF*WAICLGVG LLE\LGFM\TSLNIPVEETVDHGL PTGSARYRLGPAPPQSRAPPPVS VRWALPVLVNICLIPLRAVEPS GVHISPGDTTWLRAPAAVTSPT GPGAFVHSFLSPSVGLPPPTRLF FTQTSNKPPAFLVNDHKKGGRS KKALEGPNVTRA
20499	50867	A	20616	290	492	
20500	50868	A	20617	1164	2134	NNYNHHHHHHHHHDYYNHH/ HHYHHHHHHHHNYYNHHHHDH HHNYKHHHHHHYQHNNYNNH HHHHHHSYNHHHHHHHHHHN YNHYHHHHHHHHHHHREYHH HH/HHHHYHHHHHHNNYNYHH HYHHHHHHQHYYHHNNHHHHHH YNHHY\HHNQYHYHHYHHHD YYHHH/HYHHHHNYYYLYNRYH HYHHYHQSNNHYRHHHHHHQY HHN/HEPFA/HHT*ILFCS*KQDR NLHCAWPFFFPFNCHHHCHH HHQQQQHSGVKTQSRPESLLP ERCITYLHQKHHPLHRPGAPQHQ KTASWRGQAREAAGSSPGSLSS HTADHEVEAFKRCFYSRF
20501	50869	B	20618	164	1526	
20502	50870	A	20619	1	762	

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20503	50871	A	20620	69	1054	AISCHVVHAGHQQTQITGNDPF PVVTYSKGNLQSSRSDMDDST EREQSRLTSCLKKREEMKLKEC VSILPRKESPSVRSYKDGKLLA ATLLALHACCLTEVSFYQVAA LQGDLASLRAELQGHHAELP AGAGAPKAGLGGSSSCSPDLK IF*TTSSREKAIP/GSEQQK*GVP FQGPEETVTQDCLQLIADSETPT IQKGSYTFVPWLLSFKRGSAL EKENKILVKETGYFFIYGQVLY TDKTY\AMGHLIQRKKVHVFG DELS\LVTLFR\CIQNPETLPNN SCYSAGIAKLEEGDELQLAIPRE NAQISLDGDVTFFGALKLL
20504	50872	A	20621	3	855	LQNSHGHTMIRTLTLLSTLVAGA LSCGDPYPPYVTRVVGGEEAR PNSWPWQVSLQYSSNGKWHYHT CGGLIANSWVLT\AHCIS\IR TYRVGLGRHNLVVA\ESGLA/ MSSVSKIVVHKD\WNFNQISKG\ ND\ALLKLANPVSLTDKIQ\LA\ CFPPAGTILPN\NY\PC*VTGLGE SCRTNG\AVPDVL\QQGRLLAV DYATCS\SSA\WWGSSVKTSMIC A\GGDGVISSCNGDSGGPLNCQ A\SDALWQVHGIVSFGSRLGCN YYHKPSVFTRVSNYIDWINSVI AYN
20505	50873	A	20622	19	414	SVCWEDRYLKARMEESPLSRA PSRGGVNFNLVARTYIPNTKVE CHYTLPPGTMPASDWIGIFKP/ GYLPKPGAQLYQFRYVNRQQQ VCGQSPPFQFREPRMDELVTL EEADGGSDILLVVPKATVLQNQ
20506	50874	A	20623	1	393	AKSWQEEQSAQAQRLKDKVA QMKDTLGQAQQRVVSEAPWQ QETGNSKGKL*RSLRV*REGER HG*RLNNTTSPNAVEWRER/IT SLADE*FTRNCDLHLLLSPEAEL EPLKEQLRGAQELAASSQQKAT LY
20507	50875	A	20624	56	416	NRPLLALVASDTQPLHTHTHTH TPLSDAPKPIGA/HLP/CSYLEF PLTSVPHPSLFHNLRYSVWRGF LYF*GFLYSVSSPRISSHGKK*CI CAFCEEWGEQVVPGIPISKAPLP LQVPPQQ
20508	50876	A	20625	115	392	
20509	50877	B	20626	1	3388	

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20510	50878	A	20627	3	1889	SSPREKTS DSSHRPSRHGFLFLR LVGLSPFSYLCVPPSRPVPGSPR SLSAMRLLPLAPGRLRRGSPRH LPSCSPALLLLVLGGCLGVFGV AAGTRRPNVVLLLTDDQDEVL GGMTPLKKTALIGEMGMTFS SAYVPSALCCPSRASILTGKYPH NHHVVNNTLEGNCSSKSW\QKI QEPNTFPAILRSMCGYQTFFCR GNI*MKYGAP\ DAGG\ LGHVPL GLGVTWYALEKNS\ KYNYTL FYSMGKARKHGENY\ SVDYLT DVLANVSLDF\ LDYKSNF*PFF MMIATP\ APHSPWTAAPQYQKA FQNVFAPRNKNFNIHGNTKHW LIRQAKTPMTNSSIQFLDNAFR KRWQTLLSVDDLVEKLVKRLE FTGELNNTYIFYTSDNGYHTGQ FSLPIDKRQLYEFDIKVPLLVRG PGIKPNQTSKMLVANIDLGPIL DIAGYDLNKTQMDGMSLLPILR GASNLTWRS DVLVEYQGEGRN VTDPTCPSLSPGV SQCFPDCVCE DAYNNTYACVRTMSALWNLQ YCEFDDQEVFVEVYNLTADPD QITNIAKTFDP\ ELLGKMNYRL MMLQSCSGPTCRTPGVFDPGY RFDPRLMF\ SNRGSVRTRRFSQT SSCSDPHTASADGSLHALFLMK
20511	50879	A	20628	132	253	
20512	50880	A	20629	1	1269	

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20513	50881	A	20630	1	1920	MDEAEFSSFVVRTNTCGELRSS HLGQEVTLCGWIQYRRQNTFL VLRDFDGLVQVIIPQDEVLENFL LLSKSFFDAIAGSAASVKKILCE APVESVVQVSGTVISRPAGQEN PKMPTGEIEIKVKTAELLNACK KL PFEIKNFVKKTEALRLQYRY LDLRSFQM QYNLRLRSQMVMK MREYLCNLHGFVDIETPTLFR TPGGAKEFLVPSREPGKFYSLP QSPQQFKQLLMVGGLDRYFQV ARCYRDEGSRPDRQPEFTQIDIE MSFVDQTGIQSLIEGLLQYSWP NDKDPVVVPFPTMTFAEVRPP YGTDPDTRFGMKIIDISDVFR NTEIGFLQDALSKPHGTVKAICI PEGAKYLKRKDIGSIRNFAADH FNQEILPVFLNANRNWNSPVAN FIMESQRLELIRLMETQEEDVV LLTAGEHNKACSLGKILRTGN VAGPSRKQEGVLRDPTLFSFL WVVDPLFPQRRKIQESWDR GQHPF\TAPHPR*ITALLYTEPKK ARSQHYDLVLNGNEIGGGSIRI HNAELQRYILATLLKEDVKMLS HLLQALDYGA\PPHGIALGLD RLICLVGTGPSIRDVIAFPKSFRG HDLMSNTPDSVPS*GTEALSYP SLQANRLQSRKSSLNHAYHAES
20514	50882	A	20631	1	425	KEPVGCVNNISFLASLAGSTSR NRLQSTRGAGRLQNSGTGLSTN LQHFQEENFRKSSPQLEHT/WSF FGECTTHLPPVKAPLQTKKKT TNHCFLCGKKTGLASSYECRQ VGELEKLRCFLCDNPAWGLCKI KYLNCLFITS
20515	50883	A	20632	1	1647	
20516	50884	A	20633	1	3096	
20517	50885	A	20634	1	419	
20518	50886	A	20635	558	1070	SFRFGHSHGLWKRKKVA*GSN AIQHNMLQGKQNFHGAALWY KGNSTQSKRPQRAP*ESSTTKR GLQLSRQTLQLDPGGTVPCSEE YCICQ*EGPASRNRYNGVPSHF PSPTCIRESSHSGKILKSRLRCW GWPTDPWSVLPMDPRTSPLCA AGSQAVVAHSGRQKYPAL

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20519	50887	A	20636	3887	4573	KKTTLTSLSKTRNINPFKVVK KKAYGSRKHLRQ/HLAINPAAL LPTAASQISEVKPVLPELAFPSS EHRRSHGLESVPVLPGSGEAGV SFDLPAQADTLHSANKSRVKM RGKRRPQTRAARRLAAQESSEA EDMRSPEDPLHSGLMAPFPQM AIGHSSEQPVEKTALRRPWQLP LHLGKVVLCLWLTQAPLQSLW VIPEGRLTFLILGTFFPRALDLSP WREQNPRQR
20520	50888	A	20637	1	2988	MATAPSPMLTLAPAWLCPAT TTPRDHSEASLEALPGDPPAHP AAAATAAAVIPALEPPHTPVYA IFVNHSLLDLYIDRPLPYLIGSK LFMEQEDVGLGELSSEEGNADE QSSGLEGACKVNLELLLTNAD KGLKAPEQHLKHVAGVLNGES VETSVLNYRELSPHKNRLLSPL RCSAPMSLHNSLVKPERQSKCF EFGKLQSSSQSLDVQNTDSSF SRTTCFQGVKVDLSGKRSDVIS KVEARDITEMTNKA
20521	50889	A	20638	1	1176	
20522	50890	A	20639	2	367	
20523	50891	A	20640	124	441	RYPRVPENRCFSELLFFQAPLG VGMARGNQRL\ELARQKNLKET\ QEISRGKGKEDSLTALSRKQRD S*IIAKKQKAA\NEKKS\MQTRE NVMTGYLENPGATAQLGVS
20524	50892	A	20641	32	232	
20525	50893	A	20642	1	256	
20526	50894	C	20643	133	509	
20527	50895	A	20644	88	685	QKRGRLFKIILKVVLVLYLMKVIVI HRKMFQRAQELRWAEYHK CKAFSDHPLCKKASLQLGQNG GSGASSFFRIALLALPHS*NFKK QDGPPATSSNSTTFYN**LPEPQ DTSRMSSYSLSLSSSTLRG**S QDSSLSSYSGGRGRKITETQEA VE*AENRSLHSSLGNKKKSVSG TKEKNQKTKQNP HSKNKLTKN
20528	50896	A	20645	42	946	
20529	50897	C	20646	1	453	
20530	50898	C	20647	771	1223	
20531	50899	C	20648	324	659	
20532	50900	C	20649	427	654	
20533	50901	B	20650	343	1774	
20534	50902	B	20651	23	525	
20535	50903	B	20652	2354	5689	
20536	50904	B	20653	448	3506	

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20537	50905	B	20654	12	182	
20538	50906	C	20655	210	422	
20539	50907	C	20656	145	357	
20540	50908	B	20657	1	327	
20541	50909	B	20658	1	2595	
20542	50910	B	20659	122	472	
20543	50911	B	20660	163	418	
20544	50912	C	20661	86	517	
20545	50913	B	20662	334	2946	
20546	50914	B	20663	11	700	
20547	50915	B	20664	184	2372	
20548	50916	C	20665	267	467	
20549	50917	B	20666	131	268	
20550	50918	B	20667	18	255	
20551	50919	B	20668	100	356	
20552	50920	B	20669	120	839	
20553	50921	B	20670	355	504	
20554	50922	B	20671	1	1524	
20555	50923	B	20672	175	366	
20556	50924	B	20673	436	792	
20557	50925	B	20674	94	1347	
20558	50926	B	20675	865	1189	
20559	50927	B	20676	241	423	
20560	50928	B	20677	124	352	
20561	50929	B	20678	1	847	
20562	50930	B	20679	262	4624	
20563	50931	C	20680	76	297	
20564	50932	B	20681	1	702	
20565	50933	B	20682	1	1347	
20566	50934	B	20683	78	2874	
20567	50935	B	20684	133	7317	
20568	50936	B	20685	294	1449	
20569	50937	C	20686	139	367	
20570	50938	C	20688	154	445	
20571	50939	B	20689	1	1086	
20572	50940	B	20690	111	440	
20573	50941	B	20691	303	462	
20574	50942	B	20692	1	2905	
20575	50943	C	20693	349	453	
20576	50944	C	20694	233	376	
20577	50945	B	20695	1	2016	
20578	50946	B	20696	1464	3022	
20579	50947	B	20697	1	1059	
20580	50948	B	20698	1	933	
20581	50949	B	20699	1	930	
20582	50950	C	20700	129	215	
20583	50951	C	20701	283	408	
20584	50952	B	20702	1	1134	
20585	50953	B	20703	1	525	
20586	50954	B	20704	146	556	
20587	50955	B	20705	1	675	

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20588	50956	B	20706	1	1107	
20589	50957	B	20707	1	774	
20590	50958	C	20708	52	156	
20591	50959	C	20709	1	420	
20592	50960	B	20710	1	1347	
20593	50961	C	20711	1	411	
20594	50962	B	20712	169	248	
20595	50963	B	20713	63	1321	
20596	50964	B	20714	1	359	
20597	50965	C	20715	1195	1674	
20598	50966	B	20716	964	1290	
20599	50967	B	20717	51	389	
20600	50968	B	20718	108	232	
20601	50969	B	20719	425	3545	
20602	50970	C	20720	35	226	
20603	50971	B	20721	1	387	
20604	50972	B	20722	1	1926	
20605	50973	B	20723	523	1242	
20606	50974	B	20724	42	2346	
20607	50975	B	20725	63	287	
20608	50976	B	20726	59	200	
20609	50977	B	20727	1	1176	
20610	50978	B	20728	1	769	
20611	50979	B	20729	1	2009	
20612	50980	B	20730	219	3045	
20613	50981	B	20731	195	1739	
20614	50982	C	20732	126	435	
20615	50983	B	20733	2752	4108	
20616	50984	B	20734	1	1104	
20617	50985	B	20735	24	230	
20618	50986	B	20736	1	1292	
20619	50987	B	20737	1	7977	
20620	50988	B	20738	157	2627	
20621	50989	C	20739	165	533	
20622	50990	B	20740	35	87	
20623	50991	C	20741	68	202	
20624	50992	B	20742	83	2670	
20625	50993	B	20743	162	276	
20626	50994	B	20744	104	245	
20627	50995	B	20745	66	2768	
20628	50996	B	20746	14	3115	
20629	50997	C	20747	69	203	
20630	50998	B	20748	1	2152	
20631	50999	C	20749	114	387	
20632	51000	C	20750	56	250	
20633	51001	B	20751	53	3398	
20634	51002	B	20752	642	2386	
20635	51003	B	20753	1	1242	
20636	51004	B	20754	51	601	
20637	51005	B	20755	192	463	
20638	51006	B	20756	125	1254	

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20639	51007	C	20757	208	333	
20640	51008	B	20758	155	4443	
20641	51009	B	20759	1	2529	
20642	51010	B	20760	63	321	
20643	51011	B	20761	226	645	
20644	51012	B	20762	1	1395	
20645	51013	B	20763	258	475	
20646	51014	C	20764	126	263	
20647	51015	B	20765	1	1429	
20648	51016	B	20766	51	3256	
20649	51017	C	20767	83	403	
20650	51018	B	20768	1	621	
20651	51019	B	20769	1	463	
20652	51020	B	20770	1002	3594	
20653	51021	C	20771	107	403	
20654	51022	B	20772	51	401	
20655	51023	C	20773	46	398	
20656	51024	B	20774	1	513	
20657	51025	B	20775	1	531	
20658	51026	C	20776	1	423	
20659	51027	B	20777	52	670	
20660	51028	C	20778	43	375	
20661	51029	B	20779	1	1629	
20662	51030	B	20780	1	1713	
20663	51031	B	20781	1	5154	
20664	51032	B	20782	37	585	
20665	51033	B	20783	1	3789	
20666	51034	C	20784	149	367	
20667	51035	C	20785	89	234	
20668	51036	B	20786	113	278	
20669	51037	B	20787	1	1632	
20670	51038	B	20788	1	762	
20671	51039	B	20789	230	3411	
20672	51040	B	20790	95	1150	
20673	51041	B	20791	1	1230	
20674	51042	B	20792	74	3123	
20675	51043	B	20793	1	1719	
20676	51044	C	20794	206	402	
20677	51045	B	20795	302	424	
20678	51046	B	20796	60	80	
20679	51047	B	20797	1	1248	
20680	51048	B	20798	8	1910	
20681	51049	B	20799	124	807	
20682	51050	B	20800	43	618	
20683	51051	B	20801	7	328	
20684	51052	B	20802	244	385	
20685	51053	B	20803	850	970	
20686	51054	C	20804	97	360	
20687	51055	B	20805	551	3159	
20688	51056	B	20806	861	1110	
20689	51057	B	20807	1	876	

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20690	51058	B	20808	1	849	
20691	51059	B	20809	1	1443	
20692	51060	B	20810	508	2398	
20693	51061	B	20811	53	185	
20694	51062	B	20812	50	633	
20695	51063	B	20813	1	444	
20696	51064	B	20814	58	262	
20697	51065	B	20815	27	1005	
20698	51066	B	20816	1	4860	
20699	51067	B	20817	1	3489	
20700	51068	C	20818	52	363	
20701	51069	C	20819	347	499	
20702	51070	B	20820	1	4140	
20703	51071	B	20821	85	3930	
20704	51072	B	20822	848	3116	
20705	51073	B	20823	41	1211	
20706	51074	B	20824	248	4307	
20707	51075	B	20825	67	3180	
20708	51076	C	20826	229	467	
20709	51077	B	20827	71	1827	
20710	51078	B	20828	1	1045	
20711	51079	B	20829	1279	1479	
20712	51080	B	20830	1	2460	
20713	51081	B	20831	62	3691	
20714	51082	B	20832	1	1062	
20715	51083	B	20833	1	873	
20716	51084	B	20834	1	1041	
20717	51085	B	20835	161	5445	
20718	51086	B	20836	199	343	
20719	51087	C	20837	86	229	
20720	51088	C	20838	1	225	
20721	51089	C	20839	34	165	
20722	51090	C	20840	238	455	
20723	51091	C	20841	200	322	
20724	51092	B	20842	59	164	
20725	51093	C	20843	1353	1793	
20726	51094	B	20844	1	1329	
20727	51095	C	20845	43	324	
20728	51096	C	20846	223	435	
20729	51097	C	20847	212	307	
20730	51098	C	20848	386	529	
20731	51099	B	20849	300	995	
20732	51100	B	20850	876	3312	
20733	51101	B	20851	153	306	
20734	51102	B	20852	39	3131	
20735	51103	B	20853	29	136	
20736	51104	B	20854	112	333	
20737	51105	B	20855	31	474	
20738	51106	B	20856	26	1716	
20739	51107	B	20857	27	1234	
20740	51108	B	20858	1	6390	

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20741	51109	B	20859	1	1014	
20742	51110	B	20860	128	837	
20743	51111	B	20861	1	931	
20744	51112	B	20862	357	4629	
20745	51113	B	20863	1	1017	
20746	51114	B	20864	1	1908	
20747	51115	B	20865	224	9448	
20748	51116	B	20866	1	1209	
20749	51117	B	20867	138	359	
20750	51118	B	20868	1	1567	
20751	51119	B	20869	226	9033	
20752	51120	B	20870	20	2689	
20753	51121	B	20871	1602	2647	
20754	51122	C	20872	72	452	
20755	51123	C	20873	64	423	
20756	51124	B	20874	33	363	
20757	51125	B	20875	131	1675	
20758	51126	B	20876	37	219	
20759	51127	B	20877	1	564	
20760	51128	B	20879	1	651	
20761	51129	B	20880	44	424	
20762	51130	B	20881	28	202	
20763	51131	B	20882	1	3403	
20764	51132	B	20883	110	970	
20765	51133	B	20884	70	485	
20766	51134	B	20885	482	2943	
20767	51135	B	20886	469	1480	
20768	51136	B	20887	156	308	
20769	51137	C	20888	218	348	
20770	51138	B	20889	1	5130	
20771	51139	B	20890	21	1139	
20772	51140	B	20891	1	1302	
20773	51141	B	20892	1	1028	
20774	51142	B	20893	1	858	
20775	51143	B	20894	1	2001	
20776	51144	B	20895	1	546	
20777	51145	B	20896	1	1167	
20778	51146	B	20897	1	1299	
20779	51147	B	20898	1	1260	
20780	51148	B	20899	1	771	
20781	51149	C	20900	155	337	
20782	51150	B	20901	1	1251	
20783	51151	B	20902	106	543	
20784	51152	B	20903	57	2279	
20785	51153	B	20904	905	1120	
20786	51154	B	20905	145	2277	
20787	51155	B	20906	1	1384	
20788	51156	B	20907	1	4775	
20789	51157	C	20908	99	251	
20790	51158	B	20909	1	693	
20791	51159	B	20910	77	2173	

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20792	51160	B	20911	140	313	
20793	51161	B	20912	1	392	
20794	51162	C	20913	1	222	
20795	51163	B	20914	1	951	
20796	51164	B	20915	45	1244	
20797	51165	B	20916	166	2544	
20798	51166	C	20917	279	449	
20799	51167	B	20918	1	1250	
20800	51168	B	20919	229	2094	
20801	51169	B	20920	94	434	
20802	51170	C	20921	253	336	
20803	51171	B	20922	1	1314	
20804	51172	B	20923	6	327	
20805	51173	B	20924	163	3060	
20806	51174	B	20925	20	385	
20807	51175	B	20926	22	58	
20808	51176	C	20927	141	287	
20809	51177	B	20928	37	1063	
20810	51178	C	20929	261	401	
20811	51179	B	20930	66	3148	
20812	51180	B	20931	223	4149	
20813	51181	C	20932	21	278	
20814	51182	B	20933	158	1283	
20815	51183	B	20934	8	896	
20816	51184	B	20935	240	387	
20817	51185	C	20936	312	512	
20818	51186	B	20937	451	611	
20819	51187	C	20938	160	428	
20820	51188	B	20939	110	294	
20821	51189	B	20940	121	1764	
20822	51190	B	20941	1	423	
20823	51191	C	20942	74	316	
20824	51192	C	20943	136	255	
20825	51193	C	20944	79	381	
20826	51194	B	20945	282	1180	
20827	51195	B	20946	63	371	
20828	51196	C	20947	193	672	
20829	51197	B	20948	85	898	
20830	51198	B	20949	35	1055	
20831	51199	B	20950	1	870	
20832	51200	B	20951	103	1189	
20833	51201	B	20952	501	594	
20834	51202	B	20953	39	1694	
20835	51203	B	20954	489	4797	
20836	51204	C	20955	31	153	
20837	51205	B	20956	259	699	
20838	51206	B	20957	4	231	
20839	51207	B	20958	50	520	
20840	51208	C	20959	322	456	
20841	51209	B	20960	163	1152	
20842	51210	B	20961	33	745	

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20843	51211	B	20962	210	3519	
20844	51212	C	20963	34	294	
20845	51213	C	20964	301	381	
20846	51214	B	20965	71	675	
20847	51215	B	20966	1	873	
20848	51216	B	20967	118	1618	
20849	51217	B	20968	424	2415	
20850	51218	C	20969	106	231	
20851	51219	B	20970	71	756	
20852	51220	B	20971	1	1049	
20853	51221	C	20972	94	327	
20854	51222	B	20973	339	2589	
20855	51223	B	20974	89	273	
20856	51224	B	20975	1	2514	
20857	51225	B	20976	472	5831	
20858	51226	C	20977	247	300	
20859	51227	B	20978	1	2487	
20860	51228	B	20979	55	243	
20861	51229	C	20980	207	377	
20862	51230	B	20981	642	4117	
20863	51231	B	20982	44	2127	
20864	51232	B	20983	48	1127	
20865	51233	B	20984	1	3411	
20866	51234	B	20985	74	469	
20867	51235	B	20986	39	1251	
20868	51236	B	20987	223	378	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20869	51237	A	20988	1	2577	MPPNRHRMRGETTLWNP GCDH AGIATQVVVEKKLWREQLSR HQLGREAFLEEVWKWKEEK DRIYHQLK\KLGSSLDWDRACF TMDPKLS\AAVTEAFVGLHEKG IIRSTAFVNW PCTLNSAIDIE VDKKELTGRLLSVPGYKEKV EFGVLVSF\AYK\VQGS*/DDE EVVVANKLGSKT\MLGDVAVA VPPPKDTR\YQHL\KGKNVIHPF LSRSLSPSSDEFVDMDFGTGA VKDHPPRHDQNDYEVGQRHGL EAISIMDSRGA\PIKCASAFPGPA AGLRPGKRCWWR*RNRGLFRG IEDNPMVVPLCNRSKD VVEPLL RPQWYVRCGEMAQAASAAVT RGDLRILPEAHQRTWHAWMD NIREWCISRQLWWGHRIPAYFV TVSDPAVPPGESEDLSVFYPGT LLETGHDILFFWVARMV MLGL KLTGRLPFREVYLP CPSCENAH GRK\MSKSLGNVIDPLDVHL/Y GISLQGLHNQLLNSNLD PSEVE KAKEGQKADFPAGVPEC GTDA LRFGLCAYMSQGS*K*TWNVN RIMG*RQFCNKLWKCTKFALR GLGKGFVPS\DTSNSAGHESLA DR*IRNLLTEAVRLSNQGFQAY DFPAVTTAQYSFWLYELCDVY LECLKPVLNGVDQV/AQAECAR QTLYTLPWTLGLRLLSPFMPFV TEELFQRLPRRMPQAPPSLCVT
20870	51238	A	20989	2	4083	SQRGEHV GAGCRGGDLRELGS PGEPTVSARSTPPPGPLGGSQP RPAPGCEVDSPAQSDHLPVFP LRSDLLITMSTLYVSPHPDAFPS LRALIAARYGEAGEGPGWGGA HPRICLQPPPTSRTSFPPRLPAL EQGPGGLWVWGATAVAQLLW PAGLGGPGGSRAAVLVQQWVS YADTELIPAACGATLPALGLRS SAQDPQAVLGALGRALSPLEE WRLRHTYLAGEAPTADLA AV TALLLPFRYVLDPPAR

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20871	51239	A	20990	1	756	MDMGAIKEGESRRPGDRMTVA GTKLLHLQSTHLDLDFISLGGAPSG ALELSKAQPAHAQDTRVLMKM VIIWDL SQVPLQPGHDGHSFRIH DYL YFQVLSPGDIRYIFTATPAK DFGGIFHTRYEQIHLVPAEPPEA CGELSN GFFIQDQIALVERGGCS FLSKTRVVQEHGGRGGDHL*Q RS*QMTASTW/QMIQDSTQRTA DIPALFLLGRDGYMIRRSLEQH GLPWAII SIPVNVHQHSPPLSCC NRPFLFW
20872	51240	A	20991	2	393	
20873	51241	A	20992	1066	1824	
20874	51242	A	20993	3	902	
20875	51243	A	20994	1	2163	
20876	51244	A	20995	1	1890	
20877	51245	A	20996	1	2882	MKQQLPVSYLQVIFNHWASRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTL PPTS KLLHFS AFHFFIYKC RAEGHKLYKDLKNFLSAVKVM HESSKRVSETLQFIYYSEWYGH EELKAIVWNNDLLWEDYEEKL ADQAVRTMEIYVAQFSEIKERI AKRGRKLV D YDSARH

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20878	51246	A	20997	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDDLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLV DYDSARHHLEAVQ NAKKKDEAKTAKAEFEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSAITSPRAS LGTGTASPTSLEI*PNPE\PEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE
20879	51247	A	20998	3	273	RRPRQRPTDQTQWFSILPDFSLD LQEGPSVESQTVHSDPHIPPVDP TTHLTFNHL SIVCVSLTSLPHL GSPCLWSPALVSQEAASHQDRR
20880	51248	A	20999	309	1310	RHQRAPEQGPDA SWKMLDSSL ALGG\LVLL\ARDSVE\WEG\RSLL K\ALVKKSALCGE\QVHILGCE\ VSEKEFREGFDS**STIRLVYHD F\FRDP\LNWSKTEEGL\VPGGPL GALRS\MCKR\TDPVPVTIALDS LS\WLLRLHCT\TLCQ\ALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHIL\CRRPRQ\ RPN\YQTQWFSILPDFSLGSPRG ALCRVPALIPHITPGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQA\LLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNILP

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20881	51249	A	21000	418	1304	GLVMEIGMHHHEHHHLQAPNK EDILKISEDERMELSKSFRVYCH LVKPKDVSLWA AVKETWTKH CDKAEFFSSENVKVFESINMDT NDMWLMMRKAYKYAFDKYR DQYNWFFLARPTTFAIENLKY FLLKKDPSQPFYLGHTIKSGDLE YVMEGGIVLSVESMKRLNSL LNIPEKCPEQGGMIWKISEDKQ LAVCLKYAGVFAENAEDADGK DVFNSQICWAFY*R/WQ*LITPN QVVEGCCSDMAVTFNGLTPNQ MHVMMYG VYRLRAF GPYFSM MHWFSYLQMVLTMTKEW
20882	51250	A	21001	1	1092	
20883	51251	A	21002	130	397	EGVHSQVNLFPKIGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
20884	51252	A	21003	11	805	SSMAKPC\GVRLSGKGRKQVEV FYRNLFQEAEEFLLR\FLPPESHI P*NRLLEDFFNVA*/LLNLSS GAPLDIPSPDP\PP\KDDEMETD K\QEKKEVPKCDFL\GNEKCPC PCLPLVKPRSLDLSKEKCL\VI\ TWGSRHLDPPRFEDGK*FWG* AIPGEGAWRG*NA\VKDPKWE AFPATPISQVLSSERGDACGPRP PQETHV\MDYRALVHERDEAA YGELRAMVLDLRAFYAELYHII SSNLA EKIV\TPRGEEKPIYVLEP
20885	51253	A	21004	352	670	AKRSRIHVG VIVDSDGAELGR DAAALSEKPPSLTIGLHMELVG MGGEPA LTATPANCPEYPAKPS SI/EQQ*QSQVQ**Q*QVRHGS PLHRTPRQLFLCSRQFAL
20886	51254	A	21005	3	222	SPEESPACPRQVFPLYHLQRG QGKRVQVG*GGSLWITTKTRLL PGGVGDNEVAPGSWHLALVFR LLSSGRP

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20887	51255	A	21006	1	3639	MSEETLQSKLAAAKKKIQDILN VLVSDLNRSNGVVLPTLDKWK DAPEAWDLCLALRSICGLAIQL LGAAPLTRAANFSVAEVT DVR DSARRWETRKAPYLSRIALRM NEAAVFRHLVPGVYFPRCDQG CQLTAALGCGAGVQSHVGPVT VTTGPD SVTAADAAGLCRVLR AVGWGGSECRLTPHPYKFHVE PYGGRLVPPRLSVDPGSSRREA TSKVAVDLLVLDAAGADGPVS QSPVWKEAAGVVSQLRGGRQ
20888	51256	A	21011	137	944	KPRCCHSATMFEVPLVQGSILK KVLEALKDLINACWDISSGV NLQSMDS/SHVSLQFTLPSEGF DTYRCD CNLAMGVNLTIMSKIL KCAGNEDIVTLRIEDNVNTLV VFEASNQEKVSDYEIKLMDLD VEQLGIAEQEYHYVVKMLSGE FASIC*DLSHIGDAVVISGVKDG IIFSASGDLGN\KNKLSQTSTVD KEEEAVTMEMNEPVQLTFALR YLNFLT KATPLSSMVTLNMSA DIHLVVDYKIADVGHLYKYYLA PKMEDEEGP
20889	51257	B	21012	205	1309	
20890	51258	A	21013	189	410	
20891	51259	A	21014	1767	2158	RAQPHLYPEAARTGRK*LHFC APSSAPRAPVSERR/CAGRFLSW CPVAAWDPARWARRARRRRR AAARRRRPPRWRRRCLSARGR RRSLNSSKTKNTKCLNSINQRL KILSLQKDL MCGTAGRCKTLTE Q
20892	51260	A	21015	1	1710	
20893	51261	A	21016	132	522	
20894	51262	A	21017	1	1386	
20895	51263	A	21018	331	3101	SFSEANISTAKKTFLYNELYVY NTRKDTWTKVDIPSPRRCAH QAVVVPQGGGQLWVFGGEFAS PNGEQFYHYKDLWVLHLATKT WEQVKSTGGPSGRSGHRMVA WKRQLILFGGFHESTRDYIYYN DVYAFNLDTFTWSKLSPSGTVP TPRSGCQMSVTPQGGIV\VYGG YSKQMPPHSGQSRGRKPGSCLL LLLLLLLLLLLLLVCVPLGYSL IELSSSYRLHGNPVPATFHGLN SHMGLVATILDNVNP

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20896	51264	A	21019	2	2911	VRGPRARCRRRSSKTEPRKGPS RTSTRKRLELGAGSDSISVRRAP PHEHLFPSGERGPFSFLVSRRL GPGKMGKKKGKKEKKGRGAEK TAAKMEKKVSKRSRKEEPGVC RRIRPDLGVECSAAAAHGFNR GQFYGLPCARHSSLGFTPHEQE DLEALIAHFQTLDAKRTQTVEV PCPPSPRKCRGSQFVVTEDSVR KGTALRLNASLSVHPEKDELIL FGGEYFNGQKTFLYNELYVYNI RKDTWTKVDIPSP
20897	51265	A	21020	1	208	DGYRHEMLPASLIQAQRDYFG AH/TYELWAKPGQFIH/TNWTG HGGTVSSSSYNALFSVQFFK SVVRDS
20898	51266	A	21021	3	316	
20899	51267	A	21022	2	578	LIGLAVMGQNLILNMNDHGFV TVSKVDDFLANEAKGTKVVGA QSLKEMVSKLKKPRRIILLVKA GQAVDDFIEKLRRCRDLKAKGI LFVGSVSGGEGARYGPSLMP GGNKEAWPHIKTIFQGIAAKVG TGEPCCDWVGDEGAGHFVKM VHNGIEYGDMQLICEAYHLMK DVLGMAQDEMALCPIFCSVF

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20900	51268	A	21023	3	1758	AYANLGTRFWREPLRVFPSLVL RASPLFGSALSAAMAQADIALI VLFVMGHNILNMKDHGFEVC AFNRTVSKVDDFLANEAKGTK VVGAQSLKEMVSKLNKPPRDQ YLLC/VKAGQAVDDFIEKLVPL LDTGDIII\DGGNSEY*GTPQDG CRDLKAKGILFEGS\GVSAGEE GD\RYGP\SLMPGGNK\EA WPHI KTIFQGIA\AKVGTGEPCC\DWV GDEGAGHFVKMVHNGIEYGD MQLICEAYHLMKDVLGMAQD EMAQAFEDWNKTELDSFLIEIT ANILKFQD TDGKHLLPKIQGTS AGARRGNRSGT/WPFSGPGKY GVPV\TLI\GEAVF\ARCLSSL\KD ERI\QASKKLKGPQK\FQFDGD* EHSWEDIRKALYASKIISYAQGF MLLRHAA\TEFGWTLNYG\GIA LMWRGGCIIRSVFLGKIKDAFD RNP\ELQNLLD\DDFKVQLFEN CQ\DSWR\RAVSTGVQGWAFP MPLFYRLPLSI*TGTSHEMLPAQ PSSRLQRGLLSGAHTL*NSWAK PGAVLFHTNWTG\HGGTVSSSS YQCLDHAAPVTLHDSTVPGHSI GLNGTAHLALCPIFCSVFFKSV
20901	51269	A	21024	317	885	MRWRSKSAWRAEPKSRTNSGT ASNVSPSRPLEC*R/FLRLVSGE LILALIAFICIETIMACSPCEGLY FFEFVSCSAFVVTGVLLIMFSLN LHMRI PQINWNLTDLVNTGLSA FLFFIASIVLAALNHRAGAEIAA VIFGFLATAAYAVNTFLAVQK WRVSVRQQSTNDYIRARTESRD VDSRPEIQRLDT
20902	51270	A	21025	4761	5127	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT\TSPRNISPISNPHTR TSKRLNRSGQAFQNL LPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL

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20903	51271	A	21026	174	2238	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPRQR RHILSMDPKLRRRSWTWVGSLP LVFNHCRDASLIHPGFRGVRPR RDVCLGPSPLATITDAELYVTL TVEGKSIPFLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDEKGEH YIMVKGSIQQEELTILNMYAPN TGAPRFIKQVLNDLQRDLDSHT IIMGDFNTPLSTLDRSTRQKVN KDIQDLNSALHQADLIDIYRTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIINCLSDH SAIKLELRICKLTQNHSTTWKL NNLLNDYWVHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEEEKQEQRSKASRRE EITKIRAELEKETQKTLQKINES RSWFFEKINKIDILLARLIKKKR EKNQIDAINDKGDIAIDPTEIQ TTIREYYKHLCPNKLLENLEEMD KFLDTYTLPRLNQEEDESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AKFYQRYKEELVPFLQKYKEEL VPFLLKLFQSIEKEGILPNSFSEA SIILIPKPGRD\TTKKENFRPISLM NIDAKILNKILANQIQQHIKKLI HHDQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIISIDAeka FDKIQQPSC
20904	51272	A	21027	1	181	MEEKEERKRRRKRKRREEGR DGERKRMEKQKENQDPKDPPT TSGPQT\TSPRNISPISNP
20905	51273	A	21028	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQT\TRPRNISPISNLVS GLFLLSSPTSLTIPQLSSFNLDD TLQSLPSLNF
20906	51274	A	21029	449	663	LGSGDLPWEINTQSSCSLLCEK DPPTTSGPQT\TSPRNISPISNPDP TGNRTVQLTWQVPPELELWP KAL
20907	51275	A	21030	79	381	LGSGDLPWEINPLSSCSLLREKE PPTTSGPQT\TRPRNISPISNPELA TLAGNLATGPRNARSPGFLLSH VLSVWDPTENQTVQLTWQPLP QPLELWPKAL
20908	51276	A	21031	122	334	LRSGDLLWEINPLSS*SLLEKED PPTTSSPQT\TSPRNISPISNPDP ENQTVQLTWQPLPELELWPK AL

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20909	51277	A	21032	109	320	LGSGDLP*EINPPSSCSLLREKD PPTTSGPQTVTSPRNISPISNPDP GNRTVQLTWQPLQPPELWPK AL
20910	51278	A	21033	620	717	
20911	51279	A	21034	3	678	GGGFSDRDRRTIALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTPDPGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLRE/KD PPTTSGPQSNQPRKHPPISNP VHVPEIWPLGQGMMPAARIPPKP RPICVGPB*KSTVQLTWQPLPEP LELWPRLSD
20912	51280	A	21035	339	1098	LGSGDLPWEINPLSSCSLLREKD PPTTSGPPTVTSRNISPISNPGET KETRFIRGPKTPAPVTDWEGSL PLVFNHCRDASLIHPRFKGVRP RRDACLGPSPLAASPTFLGKGQ RLKTDARLPRKPPRPSRTLSFS TAPRILSIVVPGSGHTLAFLDVT RHRLYRESKPVVGEEVDYSEW LSDVGKSEWSFSTCASSTSVNK HDTGRLLGKRGGGMECSKGL CNFITMTKNIRSLAQM TIWQYL SPCREPV
20913	51281	C	21036	1	438	
20914	51282	A	21037	174	483	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQTVTSPRNISPISNPQR RHILSMDPKLRRRSWTWVGSLP LVFNHCRDASLIHHPGFRGVRPR RDVCLGPSPLA
20915	51283	A	21038	590	824	PNSSWMRGEPPKDPPTTSGPQTV TSRNISPISNPGRSLDYSRPFQ RCQTTQGRLPWSFTLSGKSRSFS GEGATWGLKT
20916	51284	B	21039	1	1596	
20917	51285	B	21040	155	2206	
20918	51286	B	21041	1	831	
20919	51287	B	21042	75	474	
20920	51288	B	21043	38	1009	
20921	51289	C	21044	335	481	
20922	51290	B	21045	66	652	
20923	51291	B	21046	1	673	
20924	51292	B	21047	1	451	
20925	51293	B	21048	74	3516	
20926	51294	B	21049	783	3463	
20927	51295	B	21050	1	807	
20928	51296	B	21051	41	1700	

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20929	51297	C	21052	18	381	
20930	51298	B	21053	1	3147	
20931	51299	B	21054	1	2586	
20932	51300	C	21055	756	1403	
20933	51301	B	21056	42	205	
20934	51302	B	21057	40	420	
20935	51303	B	21058	303	1170	
20936	51304	B	21059	1	2631	
20937	51305	B	21060	19	3093	
20938	51306	B	21061	23	241	
20939	51307	B	21062	84	1775	
20940	51308	B	21063	68	1542	
20941	51309	B	21064	74	2566	
20942	51310	C	21065	730	1023	
20943	51311	B	21066	67	1159	
20944	51312	B	21067	294	929	
20945	51313	B	21070	68	336	
20946	51314	B	21071	1	1992	
20947	51315	B	21072	1	4188	
20948	51316	C	21073	44	535	
20949	51317	B	21074	983	2636	
20950	51318	B	21076	289	1693	
20951	51319	B	21077	364	2393	
20952	51320	B	21078	471	590	
20953	51321	B	21079	1	1026	
20954	51322	B	21080	343	4253	
20955	51323	B	21081	1	819	
20956	51324	B	21082	648	894	
20957	51325	B	21083	1	1236	
20958	51326	B	21084	1	822	
20959	51327	B	21085	211	363	
20960	51328	B	21086	193	264	
20961	51329	B	21087	1	1260	
20962	51330	B	21088	143	3158	
20963	51331	B	21089	85	353	
20964	51332	B	21090	221	598	
20965	51333	B	21091	1	4878	
20966	51334	B	21092	171	362	
20967	51335	C	21093	320	408	
20968	51336	B	21094	1	1218	
20969	51337	B	21095	1	1761	
20970	51338	B	21096	315	1224	
20971	51339	B	21097	526	3482	
20972	51340	B	21098	41	4858	
20973	51341	C	21099	38	250	
20974	51342	C	21100	157	225	
20975	51343	C	21101	191	415	
20976	51344	B	21102	42	507	
20977	51345	C	21103	71	367	
20978	51346	C	21104	231	439	
20979	51347	C	21105	207	459	

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20980	51348	A	21106	1	429	
20981	51349	A	21107	184	544	VRLLKILQLQRFKMYVQQLDL TYFLRKIKCTLENGIVMSNTEA ESGVQLKPGRWGASALYSSHHI IH*A*LLVPR*VSNVCSRNDT* TKNKDTKNRRC*PKSSTRRGK* KRERKEKEVT
20982	51350	A	21108	3	1200	LSQKEEEEDTFIEEQQLEEEKLL ERERQRLHEEWLLREQKAQEE FRIKKEKEEAACKRQEEQERKL KEQWEEQQRKEREEREEQKRQE KKEKEKTFMWKPSVDLFSHLA SLRTPHICQDKGNAYQEHPFEK KKKRSSQLAIPGAFGYPHHLL AILGLRCSRKHNFPTSSPTLLIKS MFTTFGMEQCRRDDYDPDASL EYSEEETYYQFLDFYEDVLPF KNVGKVIQF/KGLFEIQQCPRGK HCNLFHVFRNPNNFWEANRDI YLSPDRTGSSFGKNSERRERM HHDDYYSRLRGRNPNPSPDHSY KRNGESERKSSRHRGKKSHKRT SKSRERHNSRSRGRNRDRSRDR SRGRGSRSRSRSRSRSRSRSQ SSSRSRSGRRRSGNRDRTVQS
20983	51351	A	21109	789	907	
20984	51352	A	21110	236	1823	CPIQRQSPGPAQTGRWEPLPCT VPITLRMSEGGGAGKMAALE KMTFPKKMTFPEKPSHKKYRA ALKKEKRKIRQELARLRDGL SQKEEEEDTFIEEQQLEEEKLL RERERLHEEWLLREQKAQEEFR IKKEKEEAACKRQEEQERKLKE QWEEQQRKEREEREEQKRQEK EKEEALQKMLDQAENELENGT TWQNPEPPL\DFR\MEKDGVN CPFYSKTGACRFGDRCSRKHIF PTS\SPTLLIKSMFTTLGMEQC\R RDDYDPDASLEYSEEETYYQFL DFYEDVLPFKNVGKVIQFKVS CNLEPHLRG\NIYVQYQSEEEC QAALSLFNWRWYV\AGRQLQC EF*TGDRWKMAICGLFEIQQCP RGKHCNLFHVFRNPNNFWEA NRDIYLSPDRTGSSFGKNSERRE RMGHDDYYSRLRGRNPNPSPD HSYKRNGESERKSSRHRGKKSH KRTSKSRERHNSRSRGRNRDRS RDRSRGRGSRSRSRSRSRSR RSQSSSRSRSGRRRSGNRDRT
20985	51353	A	21111	289	366	

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20986	51354	A	21112	1	1289	
20987	51355	A	21113	60	367	EELGYAGRGMGARQPPARKA VSPLQERAEPVGS PG*GWRSRP STHGIASHGGPACSLCSLHFTFF VDFPSLFSPICLPEGWDWQQEQ PCLLYLSSPRCTQA
20988	51356	A	21114	1	653	RRRGSAAAGGAAERKA EVGA MNMAGGKAGKDSGKAKAKA V\SRSQR\AGLQFPVGRIHRHLK TRT\TSHGR\VGATAAVY\SAAI L\EYLTAEVLEL\AGYAS\KDLQ SKSVSLPRHLQLAIPWVIEELDS LIQGLP*AGGGVIPSHPHKS\SLIG KEGDSKKTALLEGMLLTQPLSLP RHLYCNWDKKNNGDMWNFLP PVKWKSIDNYCRHDKRNICMF LDSEV
20989	51357	A	21115	1	1019	SVCWAGGAPRAHSTRTHAWLG RPAMEPGSVENLSIVYRSRDFL VVNKHWDVRIIDSKAWRETGRP EP\QVASVEESGSDSGLC/HHSR FCHQLDFSTSGALCVALLVLGG LPGSTGLPRELRAILPLLQLRGH IQESRVSIVRWGGPGPRVSPTNL TPAFCAPGCENPKPSLTGSWSG R*VWIGPAPSLIRHRPHPAGRTH QLRV\HCSALGHPVVGDLYGE VSGREDRPFMRMLHAFYLRIPT DTECV EVCTPDPFLPSL\DACWS PHTLLQSL\DQL\VAGLKGQPPD P*TRG*GGPRPGSPSALLPGHGR PPPPTTKPPETEAQRGPCLQWL SEWTLEPDS
20990	51358	A	21116	698	1472	RWAPRRGLSVDLDGGSSAPLCP PATTARLDAEPHGLPNSCLWE CSCLLQGIWAAGPSGLSLHYPP LSSPLGSSPPSRPQRLVLIRAGR GGWVGSVGETMTSSYGHVLER QPALGGRLDSPGNLDTLQAKK NFSVSHLLDLEEAGDMVAAQA DENVGE\SSRTRGGGAGLGKGL SGVQTRASAVWESSRLKMLS RVGRASLGQRMTA*GRLQLYP HAPKSVTDSPCSSQVTKSWNR GALQHSMIFTKRCLFQTLKE

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20991	51359	A	21117	50	1226	KMAEEVVVVAKFDYVAQQEQ ELDIKKNERLWLLDDSKSWWR VRNSMNKTGF\VPSTYVGR\EN SARKASIVKNLKD\TLGIGKVKR KPSVPDSASPADDSFV\DPGERL Y\DLNMPA\YVKFN\YMAERED ELS\LIKG\TKVIVMEKCS\DGW WRGTYNGQVGWFPSNYVTEE\ GESPLGDHVGSLSEKLA\AVVN NLNTGQVLHV\QALYPFSSSN DEELNFEK\GDVMDVIEKPEND PEWWKCRKINGMVGLVPQKL W*PLLQSIQLTSGLGTLTFQCGF IRPYIPGKFVGNPWYYGKVTRH QAEMALNERGHEGDFLIRDSES SPNDFSVSLKAQGKNKHFKVQ LK\ETVYCIWQRKSCTME*LVE HYK\KAPNFYNVKNKGEKLYLV
20992	51360	A	21118	132	428	
20993	51361	A	21119	3	337	AKLAGAAVPVCARGRAAPLAA AALPAARL\PSGAGPAGLVSDV RRRPFARE/PEPRVP/SQPPALSA LGALALKLFSSPPSCWSFSVKT GVLVPWIMCISWPYFLSGNLLT MMW
20994	51362	A	21120	438	1066	LNQKGKGGRGEALKNDLVVAP PPSPRRGVR*EALHVPDTGPFK KPRKRK*NQRQREAERK*TFPR EEEARRETHGPLPAPRPPPLCP/ PAASSAPRPGPKGAR*LSLSAE GRARRRSAGASGGAGAAATAA AAAPEHPRGSEPRQPASPAPQ RERPRRPAPRLPPQCPRPSKGRA WTLQTTTGQKVCTGAGTRRA WRRAGAVRRFAWA
20995	51363	A	21121	1	924	
20996	51364	A	21122	1	435	
20997	51365	A	21123	1	524	
20998	51366	A	21124	1	602	MGKGSPAHAQGPFSFLHGGAG DQGRGRPITLYEDRGFQGRHY ECSSDHPNLQAYLSRCNSVRVD SGCWVLYEQPNYSGLQ*FLRR GDYADHQQWMGLSDSVRSCR LIP\HASSHRLRIYEREDYRGQM VEITEDCSSLHDFHLSEIHSFN VLEGSWVLYELPNYQGRQYLL RPGDCRWCQDWGATDARVGS LRRARELY
20999	51367	A	21125	1	1239	
21000	51368	A	21126	298	408	
21001	51369	C	21127	92	241	

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21002	51370	A	21128	33	191	RDDPRVRPPPNST*PQQEPGL* LIKCTSPQAPAPRTVHGPYFY MRLIKMF
21003	51371	A	21129	3	1285	
21004	51372	A	21130	3	3468	QPGHTIYLLPTVVICNLLPCELD FYVKGMPINGTLKPGKEAALH TADTSQNIELGVSLNFPLCKEL LIPPGTQNYMVRMRLYDVNRR QLNLTIRIVCRAEGSLKIFISAPY WLINKTGLPLIFRQDNAKTDA GQFEEHELARSLSPLLFCYADK EQPNLCTMRIGRGHPEGMPGW CQGFSLDGGSGVRALKVIQGG NRPGLIYNIGIDVKKGRGRYIDT CMVIFAPRYLLDNKSSHLAFA QREFARGQGT
21005	51373	A	21131	3	451	
21006	51374	A	21132	2	107	LEGLEES/VRDRCKKEFTDLMIE MDSRLLGPTSKVK
21007	51375	A	21133	2	158	PGIPVL/DYRTYTDGFFSLPSKD GDKDVMITGKLDILKPQNQHR VFTVESRVI
21008	51376	A	21134	2	5632	FVRRTCRESRCWPGAETELDH WSLGEGVRGAMALQLWALT LGLLGAGASLRPRKLDFFRSEK ELNHLAVDEASGVVYLGAUNA LYQLDAKLQLEQQVATGPALD NKKCTPIEAS/QCHEAEMTDN VNPLLLVDPPRKRLVECGQLLK GIVCALRALSNISLRLFYEDGSG EKSFVASNDEGVATVGLVSSTG PGGDRVLFVVGKNGPHDNHIV STRLLDRTDSREAFAYTDHAT YKAGYLSTNTQQFVAAF
21009	51377	A	21135	168	5568	AREKCGGAMGAGSSTEQRSP QPPEGSSTPAEPEPSGGGPSAEA APDTTADPAIAASDPATKLLQK NGQLSTINGVAEQDELSLQEGD LNGQKGALNGQALNSQEEEE VIVRQVDHIDSEVDSDRSDTE MTTKSAVVHDITDDGQEETPDI IEQIPSSSENLELTQPTESQAND IGFKKVFKFVGFKFTVKKDKTE KPDTVQLLTVKKDEGEAAGA GDHQDPSLGAGEAASKSEPK QSTEKPEETLKREQ

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21010	51378	A	21136	807	1162	ISYHGRRRRRPQ/PVGPLGSCRS *SSRRWSTTGRTTFRAGWKSCS TPPSTSSLPTSTGTW*GPGTSAL LPPTPLPPPRAAATPCACACASE SRMPAARALGLRVRRRLLEGRS GKDTQG
21011	51379	A	21137	1	562	
21012	51380	A	21138	1	423	
21013	51381	A	21139	1	1871	MTTFKEAMTFKDVAVVFTEEE LGLDLAQRKLYRDVMLENFR NLLSVGHQAFHRDTFHFLREEK IWMMKTAIQREGNSGDKIQTE METVSEAGTHQEWFSQQIWEKI ASDLTRSQDLVINSSQFSKEGDF PCQTE/ARTICNSHKTEI/FPRA/I GYKPSFSDVSHDFHQQHLSGE KSHTCDECGKNFCYISALRIHQ RVHMGEKCYKCDVCGKEFSQS SHLQTHQRVHTGEKPFKVEEC GKGFSRRSALNVHH
21014	51382	A	21140	1056	2988	FCILIGDKIQTEMETVSEAGTHQ EWSFQQIWEKIASDLTRSQDLV INSSQFSKEGDFPCQTEARTICN SHKTEIFPRAIGYKPSFSDVSLF DFHQQHLSGEKSHTCDECGKN FCYISALH\HQRVHMGEKCYK CDVCGKEFSQSSHLQTHQRVH TVEKPFKVECGKGFSRRSALN VHHKLHTGEKPYNCEECEGKAFI HDSQLQEHQRIHTGEKPFKCDI CGKSFCGRSRLNRHSMVHTAE KPFRCDTCDKSFQRSSALNSHR MIHTGEKPYKCEECEGKGFI DL\YTHMVHTGEKPYNCKE KSFRWASCLLKTSSESHSG\K FKC\EECGKGFYTISQCYSHQR SHSGEKPYKVECGKGKRRRL DLDFHQRVHTGEKLYNCKE KSFSRAPCLLKHERLHSGEKPF QCEECEGKRFTQNSHLHSHQRV HTGEKPYKCEKCGKGYNSKFI LTHQR\RH\SRETPLKCEQH NIV\QNSFS/EKLPEKVHQC*KK PYKCEDL/CGKGYNRRL*ILDM HQR\HVMGEKTWKCCECDMCF SQAS\SLRLHQN\HVGK

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21015	51383	A	21141	154	1470	KDGDHMGYTYKVIERILEIGAF RPHMSLGQLQSARGVACLGCK GTCSGFEPHSWRKICKSC\NAA KRTTA*HLT*KNDRKLGRWLR DSKYSTLHLLG*KAGTASGFYK RNP\MNL TNPIATGKDPTFDTIT YEWGSPWEFTQETGDCSYMGA HSPREEGSQLTGHQRGA FYRA ARPAHAPGLPIYD\QDPLALPVD FWRNELKTEWKEFVK\KYKSE GPSALGEVALPGQGW LAPRKE GE/GSRKKPEGGRP/PAATTNG SLSDPSKEVEYVCELCKGAAPP DSPVVY\SDRAGYNKQWHPTCF VCAKCSEPLV\DLIYFWKDGAP WCGRHYCESLRPR/CAPACDE\ IFAEDYQRVEDLA WHRKHFVC EGCEQLLSGLGVHRHPGVQLL VPQLAASPKRSLKGCPTPQPESP GIPTEKDKPGCARDPSLRVPDV TSKPSEINQ
21016	51384	A	21142	1	1332	
21017	51385	C	21143	147	272	
21018	51386	A	21144	160	374	ETPVSSRCEKHVSSPHLCPGIHR AVSLSSH\STCGRSWRSELHGPQ STNLSGNTLPLHFLFGAWQTG VFKM
21019	51387	A	21145	3	4366	LGAQQRELQEALGARAALAL LGRLQAERRGLDAAHERDVRE LRARAASLTMHFRARATGPAA PPRLREVHDSYALLVAESWRE TVQLYEDEVRELEEALRRGQES RLQAEETRLCAQEAELRREA LGLQLRARLEDALLRMREEY GIQAEERQRAIDCLEDEKATLT LAMADWLRDYQDLLQVKTGL SLEVATYRALLEGESNPEIVIW AEHVENMPSEFRNKYYHYTDS LLQRENEWNLFSRQKAPLAS
21020	51388	A	21146	1	4617	RVIDCLEDEKATLT LAMADWL RDYQDLLQVKTGLSLEVATYRI VEHVAVEGVSKLWKPLWQKS QSLVISSGVSTGGRLNLERLRR GPTPLASTESVKQVLVNNRMII DDEMVKTLAMSRTCSAPNPLT ADVKTWSRSYRSEDAATGPVL GVASTVALLEGESNPEIVIWAE HVENMPSEFRNKSYHYTDSLL QRE\NERNLFS\RQKAPLASFNH SSALYSNLSGHRGSQTGTSIGG DARRGFLGSGYSSATT

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21021	51389	A	21147	2	435	
21022	51390	A	21148	1	1233	MCEEETALVCDNGSGLCKAG FAGDDAPRAVFPSIVGRPRHQG VMVGMGQKDSYVGDEAQSQR GILTLKYPIEHGIITNWDDMEK KKEAEELARNMAIQQELEKEK QRVAQQKQQLEQEQFHAFEE MIRNQELEKERLKIVQEFQKVD PGLGGPLVPD/SGEALLRCVPHL NSLIHTAFRLSHNCKAS*ATCG GQVLETWSTEQLRKYSNHWI APCGGAWAAVPTVSPVSQCQH CPGSGDMWNSLWKTDEE*YH YPCSHPAKCVV*LLQHRERR RTFPHGTSGAPHHTGLDSCKQF *AVREHGVR\GIHETTYNSIMKC DIDIRKDL YANNVLSGGTTMYP GIADRMQKEITALAPSTMKIKI APPERKYSVWIGGSILASLSTFQ QMWISKPEYDEAGPSIVHRKCF
21023	51391	A	21149	2	1273	PRVRPRVRPRVRSLGEEPLPSV LRSPAHSATHMCEEETALVC DNGSGLCKAGFAGDDAPRAVF PSIVGRPRHQGVMVGMGQKDS YVGDEAQSQRGILTLKYPIEHG IITNWDDMEKIWAPLLTMEL RVSTWKRHPTLLTEAPLNPKAN REKMTQIMFETFNVPAMYVAI QAVLSLYASGRRTGIVLDSG\D GVTHNVPIYEGYALPHAIMRLD LAG\RDLDYLMKIL/AKRGGY SFVTTAEREIVRDIKEKLCYVAL DFEK*\MATAASSSSLEKSYELP DGAGLSPIGKWTLPCPETLFQP YFISNGVPLEFNDDNLTIPSMK\ CDIDIP*GLICPTMFLSGGTTHV PWALLDRIQKENPSGPPGTMK IKI\NAPPEREVTSVWD/LGGSILA SLSTFQA\MWISKPEYDDAGPSI VHRKCF
21024	51392	A	21150	95	674	

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21025	51393	A	21151	1	1536	MGGGEQGTLRTAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSRRTA APGAREQCGTHGGEGSTLEGR PDVPQDLFSPTLGFYGSTYPELE QGMLGGH*G/PAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSRRTA APGAREQCGTHGGEGSTLEGR PDVPQDLFSPTLGFYGSTYPELE QGMLGGHVEASREYQMLSHV GNPDYPHALATEQATSPSTESG SAGFKGVALAMLSKITMCVRIG ILVFQQDQGSMDKAFSTTGMG LVTYLLTCRAWRLQCGASYR AHDVNVLPGCSGPAALLLGDW FSLHSSDAVLPAQQQGMLSQG EADACITLPHLFPSREVVFLGL EAGGLIPGAEGPPEDMGLVRGP PAVAAGPPRWLSPEFCLLQYS EEEGCKEPLWLKVEAEVSTLYR FMPTGFTRGPFNIEHREWGNTT ATWTRMISNHNKHSQRGRKMT ARLPCGGAPHFSDRDDEKWR SSLLTRSGCQTERLLTSQTEPLP AGGSPHFSNGETGQRRSSPPQR GCDRPQALLTSKTEQQRKSASH ISYDERPGKDAPHFLDGMVAG KRRSSLSRLGSQA

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21026	51394	A	21152	689	2176	PATSPTSRAMAQPSAPAASMLL PCPECPSGPRFMTCCLSVSTFCS PSLRRPPGSIKGSSGLGGVSSRT SCRLSG\ALGAGSCRLGSAGGL GSTLGG\NSYSSCYSGSGGGY GSSFGG\VDGLLA\GGEKA\TMH NLIDF\LASYLKVPKPWEAN TELEV\KIRD\WYQRQ\APGPAR DYSQYYRTIEELQNKILTATVD NANILLQIDNARLAC/ADDFRT K\FETEQALRL\SVEADINGL\R RVL\DELTLARADL\EMQIENLK EEAWPTLKERTTEGRRNLNLR GQVGW*RSMLEMDAAPGVDL SRILNEMPSCVDHRVTRCINRP GAELKLGSGGWTEELKREVAT NSELVQSGKSKISEL\RRTMQAL EIELQSQLSMKA\SLEGNLGGD RATAYCVQLS\QIQGLIGSGED QL\AQLR\C\EMEQQ\NQDYKILL DVKTRLEQEIATYRRLLEG\ED AHLT\QCKKEPVTTTRQV\RTIVG KRSRD\GKVILLPRSRFHQTTR
21027	51395	C	21153	58	252	
21028	51396	A	21154	2	190	
21029	51397	A	21155	2	432	KMADGVDHIDIYADVGEFFNQ EAIEYGGHDQIDLYDDVISPSAN NGDAPEDRDYMDTPPPVPGYG PPPGPPPPQGP PPPPGPFPPRPP GPLGPPLD/TLAPPPHLP/PP/PG \APPPA\PHVEPSFLFLPPINS GH GLHSDRPRFH
21030	51398	A	21156	1	1070	MGGIGARAAAAGKRRRRRAR PPGLPPPTSDGGGGAAAASSLR RLHAAPPPGSAAGSASRVPTI GSEAAPAREDRRLHSGRVRAS GSPRLTRPRPVKRRGRTRGGGA PRQGSAAARPRGGKGAHSAVAS ARAAAGPGSASRPHGAASAAG TWALTYLVLEFADIRVNVYVV HAVRHLPSACAAAAAASCRF ALVGVGSEASSKKLMDLLPKR ELHGQNPVVTCPNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPQGGRRGRFPGA VPGGDRFPGPAGPGGPPPFQD PSVNSDPVCGTFG/EH*PPGYQT PSNLSVRPMAKPKPEGTDLSRS REGFFKSRFAPN

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21031	51399	A	21157	63	1750	MKMAGGVNHIDIYADVGE*FN QEA\EYGGHDQIDVHDDAISPS ANNGDAPEDRDYMDTLPPTVG DDVGKGAAPNVVYTYTGKRIA LYIGNLTWTTDEDL TEAVHS LGVNDILE\KFFENRANGQSKG FALVGVGSEASSKKLMDLLPK RELHGQNPVVTCPNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPQGRGRGRFPGA VPGGDRFPGPAGPGGPPPPFPA GQTPRPPLGSFQGGPPGPPGPP PGQVLPPPLAGPPNRGDRPPPPV LFGQPFGQPPLGPLPGPPPPV PGYGP PP GPPPPQGGPPPPGPF P\PRPTGSNLGHPLTLAPPSASFP GP\PP\GAPPPSPHVNP AFFPPPT NSGMPTSDSRGPPPTDPYGRPPP YDRGDYGP GREMDTARTPLS EAEFEEIMNRNRAISSAISRAV SDASA/GVDYGSAIETLVTAISLI KTIPKYPADD/RCTKFLISSLQD CLHGIESKSYGSGSRRRERSRER DHSRSREKSRRHKSRSRDRHDD YYRERSRERER\HRDRDRD\RD RERDREREYRHR
21032	51400	A	21159	1	96	TNFKSGLLGAAED*HCPIASE AP*TITDAEL
21033	51401	A	21160	1	1056	MWKGP KGLDMYGKSSVSPKTS DILGRDTLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTDQPKHLTNFK SGFRGVRP/LQGRLPWSFTLSGK SRFSGEGASTPTPSLCVSTPSPPF WGARNTQPLLLHPEWQ/CPLF* RSKYPNLVSLCPSPLFPRPDLLS L/SAQSLISAPQLISLCPNPLFPC PDLLSLHPNPLFPRPNPFPAFLE GACYKCQKSGHQAQEC LQPGI PPKLRPICAGPHWKSDCPHTLA ATPRAPGT LAQGS LTASQIFLA
21034	51402	C	21161	283	408	

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21035	51403	A	21162	3	505	ILNPVSGLFLFSSPLSLNLSSLSL NFLLLSILAPHFNLSILLISIPFIFP LEIELSNSPGSHSQSPWNSGPRL SDSFDDLGLAAEE*HCPPIASEA FSQTYRAYLSLSLSLSLSPEPPT AGDGVTHSSPVASTTITVLGQT /SKPAQCWPLPKVCCHHS�TS YVHPRP
21036	51404	A	21163	164	420	LANFCEESGAGEPGSHSQSPWN SGPRLSDSFDDLGLAAEDRHC PIASEAPLLQRKSLYKSPCTSSSTI S*CCIPRSIGISELSVN
21037	51405	A	21164	50	298	
21038	51406	A	21165	49	433	SSSGIWPSHSQSPLRSSPAKLLS RFRCSSLLCLATLLLWQP LPEPLEWPKA/HLTDSFPDLGL LAAED/W/HCPPISEAP*TLDAE LRVTLTVEGKSIPFGAGKEVTL ESYWVSLTSLICYMII
21039	51407	A	21166	282	374	CDLFLPHPN*SMYFVISPTPKKV LCNSPHT
21040	51408	A	21167	71	333	LRSGDLPWEINPLSSCSLFREED PPTSGPQTNQPKHLTNFKSA AED*RCQFASEAP*TITDAKLRY SLTAEGLLATLFLNPKPEY
21041	51409	A	21168	113	342	AFGCFTTGVRVTDSGPLYTG PWAPGSHSQSPWNSGPRLSDSF PDLLGLAAED*HCPPIASEAPFLT LIFLLCVIQ
21042	51410	A	21169	301	608	TFTPLKSYIKAPSSAGPVAEQE MTPEGKVGAGPE*LTWKNQFL FY
21043	51411	A	21170	2	724	FLVSLMLPPAVVMLNHCYSLIF TNALVKRLFawnMLSELATCA GNLATGPRNARSPGFLSCVP VRDPTGNQTVQLTWQPLPEPLE LWPKA/HLTDSFPDLLGLATED *HSPPIASEAPWAIMDAELRVTL TVEDRDSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSPCD LFLPHPN*SMYFVISPTLKVKVLY NVTHP*EVSL*FSPPLRMVFVRS IPCQNIALNSTAYP
21044	51412	A	21171	442	501	

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21045	51413	A	21172	266	1003	SCMCLALDPCNHGEGHQPDFS GVKFRRHGADNHEASAAATATT AAATTVAAAAAAAAAAAAAAR VTLTGSHFQSPWNSGPRLSDSF PDLLSLATED*RCPIASEVPWTI TEAELRVTLTVEGKSIPCLIDTG ATHSTLPSFQGPVSLAPITVVGNI DGQASKPLAKTPPLWACQLGQH SFMHSFLVIPHL/CPIFLIRGRNII TKLS\ASLTIPGSTANISLVAFPP NPKPPLCPLTSPQYHPLPQDLPS A
21046	51414	A	21173	2	245	LTALLRKSLDPRLISTGENTQTA ETMGPLSAPPCTQHITW\KGLLL TAETPKPSISSSNLNPRGGHGRL CALILLIEDSG
21047	51415	A	21174	3	324	
21048	51416	A	21175	3	552	
21049	51417	A	21176	3	435	
21050	51418	A	21177	3	1459	GAVRTWGRGFQTEKCQASLLN FWNPPTTAQVTIEAEPKTVSKG KDVLLLVHNLPQNLAGYIWYK GQMKDLYHYITSYVVDGQIIY GPAYSGRETIVYSNASLLIQNVT REDAGSYTLHIVKRGDGTGET GHFTFTLY\LIPWTLTYL*RLA QVSHYETPGKTAPPCGSTA**L N*PPDLTLFSPVLFLKYPVPGQ AFQYPKGLKTIGSSITHL*DVLG KGSCRENIPRAAK*D*N*EDSST ACSK*GPQVETPKPSISSSNLYP REDMEAVSLTCDPETPDASYL WWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLNLLPKLPKPYI TINNLPRENKDVLAFTCEPKS ENYTYIWWLNGQSLPVSPRVK RPIENRILILTQCSREMKQGPY\ QCEIQ\DRYGG\IRSYPTLECP/ HITTKHSGLYACSVRNSATGME SSKSMTVKVSAPSGTGHLPLGN

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21051	51419	A	21178	3	1445	IRADPAHELENCSCPGKRLSTE RGRTAQLTAVLREFLDPRLISTE ENTQAAETMGTLSPCTQRIK WKGLLLTASLLNFWNLPTTAQ VTIEAQPPKVSEGKDVLLLVHN LPQNLTGYIWYKGQMRDLYHY ITSYVVDGEIIIYGPAYSGRETA YSNASLLIQNVTRDAGSYTLH IHKDDGTRGVTGRFTFTLHLET PKPSISSNLNPRETMEAVSLTC DPETPDASYLWWMNGQSLPMT HSLKLSETNRTLFLLGVTKYTA GPYECEIRNPVSASRSDPVTNL LPKLPKPYITINNLNPRENKDVL NFTCEPKSENYTYIWWLNGQSL PVSPRVKRPIENRILILPSVTRNE TGPYQCEIRDYGGVRSRDPVT NLVYGPDLPRIYPSFTYYRSGE VLYLSCSADSNPPAQYSWTINE KFQLQGGKLFIPHITTKHSGLY VCSVRNSATGKESSKSMTEV SGKWIPASLAIGF
21052	51420	A	21179	3	1380	TAQLTAVLREFLDPRLISTEENT QAAETMGTLSPCTQRIKWK GLLLTASLLNFWNLPTTAQVTI EAETKVSEGKDVLLLVHNLPO NLTYIWYKGQMRDLYHYITS YVVDGEIIIYGPAYSGRETA YSNASLLIQNVTRDAGSYTLH IHKDDGTRGVTGRFTFTLHLET PKPSISSNLNPRETMEAVSLTC DPETPDASYLWWMNGQSLPMT HSLKLSETNRTLFLLGVTKYTA GPYECEIRNPVSASRSDPVTNL LPKLPKPYITINNLNPRENKDVL NFTCEPKSENYTYIWWLNGQSL PVSPRVKRPIENRILILPSVTRNE TGPYQCEIRDYGGVRSRDPVT NLVYGPDLPRIYPSFTYYRSGE VLYLSCSADSNPPAQYSWTINE KFQLQGGKLFIRHITTKHSGLY VCSVRNSATGKESSKSMTEV SSSINYTSGNRN

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21053	51421	A	21180	2	1341	TEGGRTAQLTAMLRQLLDPRLI STEENTQAAETMGPLPAPSCTQ RITWKGLLLTASLLNFWNPPTT AEVTIEAQPPKVSEGKDVLLLV HNLPQNLPGYFWYKGEMTDLY HYIISYIVDGKIIYGPAYSGRET VYSNASLLIQNVTRKD\AGT\YT LHIK\RGDETREEIRHFTFTLYL ETPKPYISSNLPREAMEAVR LICDPETLDASYLWWMNGQSL PVTHRLQLSKTNRTLYLFGVTK YIAGPYECEIRNPVSASRSDPVT LNLLPKLPITYITINNLPRENK DVLAFCEPKSENYTYIWWLN GQSLPVSPGVKRPIENRILIPSV TRNETGP\YQCEIRDYGGIRSY PVTNLVLYGPDLPRIYPSFTYYR SGENLDLSCFTESNPPAEYFWPI *GKFQQSGQKLFIPQITRNHSG LYACSVHNSAAGKEISVSLFRH
21054	51422	A	21181	1	1532	MTQFPMDKRQGRSRVAITNT AVTSLEWVPFHAFIPRSTLVS QQRLSTERGRTAQLTAVLREFL DPRLISTEENTQAAETMGTLA PPCTQRIKWGLLLTASLLNFW NLPTTAQVTIEAEPTKVSEKGD VLLLVHNLPQNLTGYIWAYKGA MR\DLHYHYVTSYVVDGQIIKYG \PAYSGRETAYSNASLLIQNV RED\AGSYTLHIKGGDDGTRGVT GRFTFTLHLETPKPSISSNLPNPR ETMEAVSLTCDPETPDASYLW WMNGQSLPMTHSLKLSETNRT LFLGVTKYTAGPYECEIRNPV SASRSDPVTNLNLLPKLPKYITI NNLNPRENKDVLNFTCEPKSEN YTYIWWLNGQKPP/VSSPRVKR PH*KTGSLIPTPVFTRNETGP\YQ CEIRAR\YGGVIRSDPVTNLVLY GPDLP\RIYPSFTYYRSGGKSSY LSCFCGTSNPPAQYSWTIN*K VFSLPGTKALYSRHITTKHSGL YVCSVRNSATGKESSKSMTVE VSDWTVP
21055	51423	B	21182	28	29751	

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21056	51424	A	21183	158	1660	EASLLEDDDDGMVYLRPLTSHQ YRTAQLRAMLRKFLDPRLSSTE ENTQAAETMGPLSAPPCTQRIT WKGLLLTASLLNFWNPTTAQ VTIEAEPTKVSKGKDVLLLVHN LPQNLAGYIWYKGQMKDLYH YITSYVVDGQIIHYGPAYSGRET VYSNASLLIQNVTTREDAGSYTL HIVKRGDGTGETGHFTFTLYL ETPKPSISSSNLYPREDMEA VSL TCDPETPDASYLWWMNGQSLP MTHSLQLSKNKRTLFLFGVHK VHCRDPMECEIREPS*VASRS*P SSPWNLLPKL\PKPYIT\NN\NLP REKKDVLAF\CDPKSRNYTYI WWLNGQSLPVSPRVKRP\IENR DPSFLP\SVTRNETGP\YQCEIRD \RYGG\IRSYPVTLNVLYG\PDLP RIYPFISPIYHFREENLRTLSCFC GTFNPPGRVFLGTINGGSFQVIQ GQKALYSPRITTKHSGA/LYAW LCSVTSRPLAWESSQIPWTV\KV SGSFQGTGTSSWGLNPL
21057	51425	A	21184	927	1378	QPPTLRSWDCWFAWGRQLM SSP/STEPQVCFTIEGHEIDFLG TGMAFSVLISCPG*LSSRSVTIR GILG*PVTRYFSHLLSCNWETLL FSHNAKTQGGGTLTPKPSKSH RPWAVRGLAPGPAAAVLNFSP GLSCLPTGQGLGPAAHHA
21058	51426	A	21185	1	221	ILLAQLESQDGDILRQRDEFDLL VAGEICRFSALIEELE\EKNERPA RELLTVRPEPEPCPTCAVLRLLH LCLA

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21059	51427	A	21186	335	1963	VCDPALPPWAKQREWALEGS SSRTSMGLLVASVTSLGRWKF NCPI/CVQGTKEAGSLSNCG/H KNFCRACT\RYCEIP\GPDLEE SP\TCP\LCKEPFRP\GSFRPNWQ LANVVENIERLQLVSTLGLGEE DVCQEHGEKIYFFCEDDEMQL CVVCREAGEHATHMRFLEDA A\APYREQIHKCLKCLKEREI QEIQSRENKRMQVLLTQVSTKR QQVISEFAHLRKFLLEEQQSILLA QLESQDGDILRQRDEFDLLVAG EICRFSALIEELEEKNERPAREL LTDIRSTLIRCETRKCRKPVAVS PELGQRIRDFPQQALPLQREMK MFLEKLCFELDYEPAHISLDPQ T\SHPKLPLVPRTIQR\AQFS*QM GRTSPDNPQ\R\DRATCVSRPT LGITGGRHTWVVSIDLAHGGSC TVGVVSEDEVQRKGELRLRPEE GVWAVRLAWGFVSALGSFP\TR LTLKEQPRQVRVSLDYEVGWV TFTNAV TREPIYTFTASFTRKVI PFFGLWG\RGS\SFSLSLRRSSY LLSSKYRTHINPSTMWT
21060	51428	A	21187	217	397	
21061	51429	A	21188	529	1526	YCGRVGELAAGELVFLWSRVG PQNPRSSRLPPPTLAMFLTRSEY DRGVNTFS\PEGRLFQVEYDIEA IKLGSHSQLAPRHREGV\ALAV\ EKRIYLPHLMGAQAGI*GKLLG DLMLHIGLLPIEWGLICLMLKT FNSIKSRVGRHR/YPWGSPYNG GH*QWESFEPKLCPNLGFSSFG EEDAESRVPM\S\RPLGSSHLFIW EELYEKGTSLFP*GTPFWGPFV PVWMARSQFGSGFQRGAPRAP LPRKFPPTSPMTFERSPPSSPSHP SLKQVMGGRKLNANQTIEPRPT VPALAENFPHCSQRKKLEEVIQ GHFKESWILRTSLGTISVLNNVP
21062	51430	A	21189	211	382	TSVSPSPPLPC*RHPGEPQTGN NASNGTSSSRDESPPVRVPPPP QTAVAILSTA
21063	51431	A	21190	3	96	FFFPQKYD*DR*EHPRFHKTLR NWRVGAQ
21064	51432	A	21191	1	1320	
21065	51433	A	21192	1	339	

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21066	51434	A	21193	289	3694	MAFVPVIPESYSHVLAEFESLDP LLSALRLDSSRLKCTSIASVRK WLALGSSGGGLHLIQEGWKH RLFLSHREGAISQVACCLHDDD YVAVATSQGLVVVWELNQERR GKPEQMYVSSEHKGRRVTALC WDTAILRVFVGDHAGKVSAIK LNTSKQAKAAAAFVMFPVQTIT TVDSCVVQLDYLDGRLLISSLT RSFLCDTEREKFWKIGNKERDG EYGACFFPGRCSGGQQPLIYCA RPGSRMWEVNFEDGEVI
21067	51435	A	21194	2	128	
21068	51436	A	21195	1041	2238	LLHPAQRSLSKDGTKESELEDA LMGEEGKPEINQQLSLESMELD ELALEKYPIAAPLVPYPEKSSD GVGNPEAKILSGTPTYKRRVISL LVTIENHTPLVELSEYLGNTLS EILDSPWEGAKNVYKCPECDQ NFSHDHSLVLHQIHSGEKKHK CGDCGKIFNHRANLRTHRIHT GEKPYKCAKCSASFRQHSLSR HMNSHVKEKPYTCSICGRGFM WLPGLAQHQKSHAENTYEST NCDKHFNEKPNLALPEETFVSG PQYQHTKCMKSFRQSLYPALSE KSHDEDSERCSG\CGDNFFSFSK FKPLQCPDCDMTFPCFSELISHQ NIHTEERPH*\CKTCEESFALDSE LACHQKSHMLAEPFKCTVCGK TFKSNLHLITHKRTHIKKHVK
21069	51437	C	21196	156	389	

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21070	51438	A	21197	1	2466	MLSRLFRMHGLFVASHPWEVI VGTVTLTICMMSMNMTGIAG LFTIFSSFVFSTVVIHFLDKELTG LNEALPFFLLLLIDLSRASTLAKF ALSSNSQDEVRENIARGMAILG PTFTLDALVECLVIGVGTMSGV RQLEIMCCFGCMSVLANYFVF MTFFPACVSLVLELSRESREGR PIWQLSHFARVLEEEENKPNPV TQRVKMIMSLGLVLVHAHSRW IADPSPQNSTADTSKVSGLDE NVSKRIEPSVSLWQFYLSKMIS MDIEQVITLSLALLAVKYIFFE QTETESTLSLKNPITSPVVTQKK VPDNCCRREPMILVRNNQKCDS VEEETGINRERKVEVIKPLVAET DTPNRATFVVGNSSLDTSSVL VTQEPEIELPREPRPNEECLQIL GNAEKGAKFLSDAEIIQLVNAK HIPAYKLETLMETHERGVSIRR QLLSKKLSEPSSLQYLPYRGY NYSLW*WGACCENVIGYMP VGVAGPLCLDEKEFQVPMATT EGCLVASTNRGCRAIGLGGGAS SRVLADGMTRGPVVRPRACD SAEVKAWLETSEGFVIAKEAFD STSRFARLQKLHTSIAGRNLIR FQSRSGDAMGMNMISKGTEKA LSKLHEYFP*NCRF*AVISGNYC TDKKPAAINWIEGRGKSVVCET VIPAKVVREVLKTTTEAMIEVN INKNLVGSAMAGSIGGYNAHA
21071	51439	A	21198	236	3022	GEGSFRSATALTGARLSVGAGV RWPLVRSGGSKDSVATMLSRL FRMHGLFVASHPWEVILGTVT LTICMMSMNMTGNKICGWN YECPKFEEDVLSSDIILITRCLIA ILYIFYFQFNLRQLGSKYILGIA GLFTIFSSFVFSTVVIHFLDKELT GLNEALPFFLLLLIDLSRASTLA KFALSSNSQDEVRENIARGMAI LGPTFTLDALVECLVIGVGTMS GVRQLEIMCCFGCMSVLANYF VFMTFFPAC
21072	51440	A	21199	1	450	CKSRGSNLRVHFKNTRETAQAI KGMHIRTATKYLKDVTLQKQC VPFRRYNGGVGRCAQAKQWG WTQGRWPKKSAEFLVIEHIQV NKAPKMRRRTYRAHGRINPYM SSPCHIEMILTEKEQIVKPEEEV AQKKKISQKKLKKQKLMARE

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21073	51441	A	21200	1	876	
21074	51442	A	21201	1	1725	
21075	51443	A	21202	278	889	SVKMVRYSLDPGGTPRKSC/S QRGSNLRVPFKDHS*KLPQAHQ RVCHIRKSPTKY\LKDVHLTRN QCVPIPDYNG*QLGQVCRHK QMGP GTTKGR\WPQKGV LKFL PAHALKTAE\SNAEL\KGLDVDS LVIEH\QV NKA\KM\RRRTYR AHGRINPYMSSPCH\IEMILTEK EQ\VPKPEEEVAQKKKISPEETE RNKNLLARE
21076	51444	A	21203	1	1923	
21077	51445	A	21204	1	280	
21078	51446	A	21205	1	109	
21079	51447	A	21206	1	638	
21080	51448	A	21207	1	396	
21081	51449	A	21208	26	969	HGVGCRDGLPMECRFLCQIFM AFMQMNSYCARHKKATRRTV* /CRNQDMTESSQKWTGKGS AV EHLVESGEWTMHPARPVSACR CPSDCHVPLSPGACWPKLECLS EGSSYISDGKEYLFYLNVCGET EIQFCNKKQAAVCQVKKSDTS QVKAAGRYHNQTLRPSESSWS LLFVVLVFFPGVHSPFSLDEALT LCPQNCLPPGTVSAPLNCVYPL ALSAVALAAGSELMECHRLV NSLEVSTAAQGQSSKTQFYACL CRLSTHLWKYSEESGRRLVCSF YQPSELNPALNLSFLVGTRLQE GAALLFIQSGFTIV
21082	51450	A	21209	1	465	
21083	51451	A	21210	217	453	
21084	51452	A	21211	1	840	
21085	51453	A	21212	1	663	
21086	51454	A	21213	176	957	DEPIGVPLLSAPPAGTTKIKADQ LHLQGAAPKICPCLQDGS LGQH YCPFVSFSRYYNLCQKIYKGPL GC SERASICRRTTTG DVQVLGL VHTQK\LG VIGPRVVVTTSKRY PCGGNKTASSVIELTCTKPVGR PAFKRFEIDSCTYYFSWDSGAA CAVKPQEVQMVNGTITNPINGK SFS LGDIYFKLFRASGDMRTNG DNYLYEIQ LSSITSSRN PACSGA NICQVKPNDQHFSRKVGTS DKT KYYLQGNPWLPTKFHI

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21087	51455	A	21214	3	7616	SPVEPRSPRAPAPSPPPPLPWRR DPVPGAAPSSRAPLASRPPRSSG PGAMGAAAGRSPHLGPAPARR PQRSLLLLQLLLLVAAPGSTQA QAAPFPELCSYTWEAVDTKNN VLYKINICGSVDIVQCGPSSAVC MHDLKTRTYHVSVDVLRSAT RSLLEFNNTTVSCDQQGTNHRVQ SSIAFLCGKTLGTPEFVTATECV HYFEWRTTAACKKDIFKANKE VPCYVFDEELRKHDLNPLIKLS GAYLVDDSDPDTS
21088	51456	A	21215	2	184	VNCQPLGMISLMKR\PPGFSPFR SSRIGEIKEETTSHLRSEYKGR PPKAGAEPASEREVS
21089	51457	A	21216	1	203	
21090	51458	A	21217	1	1107	
21091	51459	A	21218	1	915	
21092	51460	A	21219	1	1932	
21093	51461	A	21220	2	746	

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21094	51462	A	21221	1	2157	MGFPLRPSPAHLSGRQQFPAK EERLLSLTQESQSEEIDCNDKD LFKAVDAALKKYNSQNQSNQ FVLYRITEATKTVGSDTFYSFK YEIKEGDCPVQSGKTWQDCEY KDAAKAATGECTATVGKRSST KFSVATQTCQITPGGWFILWHC PGGKLTISDYPNSSRVLHCTQC VQGLNRRTRRHKTCPLQAAS QIEERIGFEGRPGLSEFRAPCLL ASFPFCKLEKGAEGPVVTAQYDC LGCVHPISTQSPDLEPILRHGIQ YFNNTQHSLSFMLNEVKRAQ RQAAP/GREFSSMDTFEGYEGA EDMEKLAGPPVG*QSRNFLQ IRFPGEERKHPGRKRRT*GSN GDRQHQEGACWGVHAG*LLR GRRLVSRGRGARGPPPRRAAL PAVAPAPRLQSARIPERGDGDD GVRRWGHREAIGS*GQS/LS/CN GIIILIKEERLPCPFHCISLMKRPP GFSPFRSSRIGEIKEETTVSPHT SMAPAQDEERDSGKEQGHTRR HDWGHEKQRKHNLGHGKHKE RDQGHGHQRGHGLGHGHEQQ HGLGHGHKFKLDDDLHQGGH VLDHGKHKKHGHGHGKHKNK GKKNKGKHNWKTEHLASSED STTPSAQTQEKTEGPTPIPSLAK PGVTVTFSDQSDLIATMMPPI SPAPIQSDDDWIPDIQIDPNGLSF NPISDFPDTTSPKCPGRPWKSVS
21095	51463	A	21222	207	424	HHINCVLLYLQSHLRS\CEYQG\ RPPKAGAEPASE\REVSLTNWA ESSTPRHIAPTTSASNLEMEGQE ERWDRI

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21096	51464	A	21223	170	1487	IMKLITILFLCSRLLLSLTQESQS EEIDCNDKDLFKAVIDAALKKY NSQNQSNNQFVLYRITEATKTV GSDTFYSFKYEIKEGDCPVQSG KTWQDCEYKDAAKAATGECT ATVGKRSST\KFSVATQT\QCITP AEGPVV\TAQLRTCLG/CVWHPI IQRQSPDLEPILRHGIQYFNNNT QHSSLFTLNEVKRAQRQVVAG LNFRITYSIVQTNCSENFLFLT PDCKSLWNGDTGECTDNAYIDI QLRIASFQSNWD\IYPGKD VVQ PPTKICVGCPRDIPTNSPELETL THTITKLNAENNAISYFKIDNVK KARVRVVAGKKYFIDFVAR\ET TCSK\ESNEELTESCETKKLG\Q RLG\CNAE\VVVPW\EKKIYPT/ VFNCSTTGEWIFT*WKRPPRVF SPFRS\SRIGEIKEET\TSHLRSC YKGRPPK\AGAEPASEREVS
21097	51465	C	21224	21	281	
21098	51466	A	21225	204	441	QISQVLIHCNQK*VILTGNFLDT YF*TTFINKKIDELRLCA/CAVA HSYNTTLCKKPRWKDCLRPVAV QDQPVQHSETLSL
21099	51467	A	21226	333	604	SSDRITKPPSAEFLPLQRTFLHSL QDTVIELLH*DLETPPLTVLQNH PSLPRPIPAPPTLCPQTRWPHLR GHQGILAAASHILETALAAIF

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21100	51468	A	21227	846	3269	GFMEVLRDPIKKNSSSESKPAQS GFSRGNSPLSCPESVEASPAVNE KSVYSTHNYGTTQRHGCRGLP YADHNYGAPPPPTPPASPPVQTI IPRSDLNGLPSPVEERCSDSPNS EGETVPTWCPCGLSQDGFLLNC DKCRGMSRGKVIRLHRRKQDN ISGGDSSATESWDEELSPSTVLY TATQHTPTSITLTVRRTKPKKR KKSPEKGRAAPKTKKIKAFREG SRKSLRMKNPSEAQNLDENTT EGWENRIRLWTDQYEEAFTNQ YSADVQNALEQHLHSSKEFVG KPTILDINKTELACNNTVIGSQ MQLQLGRVTRVQKHKILRAA RDLALDTLIEYRGKVMLRQQF EVNGHFFKKIPYPFVLFLLQNL NGVEMCVDARTFGNDARFIRR SCTPNAEVRHMIADGMIHLCIY AVSAITKDAEVTIAFDYEYSNC NYKVDCACHKGNRNCPIQKR S*CYRTATPTTSSKPTHHWSRD *T*KS\RRKELEMEQQNEASEEN NDQQSQEVPEKVTVSSDHEEV DNPEEKPEEEKEEVIDDQENLA HSRRTREDRKVEAIMHAFENLE KRKKRRDQPLEQNSDVEITTT TSETPVGEETKTEAPESEVSNSV SNVTIPSTPQSVGVNTRSSQA GDIAAEKLVKPPPAKPSRPRPK SRISRYRTSSAQLKRQKQANA QQAELSQAALIEGGSNSLVTPT
21101	51469	A	21228	2	197	CRPPSPRPVRAARPARPQASFSR EPPRRMAP*SKRRRQSARGPV RPSRVWARIKAKPYSCCCQL
21102	51470	A	21229	4	488	GSYDINRQDTFQKDRQRVGPSG ASQKTEGFLRLLYSGLIIAHCS LEILGRNDPPASASKVAETDTS GSLSLANT*PPTPR/VTSQTANA TSQAAPALPLGSVPGRRAADPR PLLAWAPAPPGPGTSRNTHPAP DGLDMLVPIGDGVLGGNCFRN QCKSVSTS
21103	51471	A	21230	124	293	

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21104	51472	A	21231	239	1393	IYPQISFQKKFVMFFFSEALCTA RAEEDPIGLLNNPRTSRYSRL KPNSSLGGSESRTQMGPLPPP PKSPDGARPVPGCIKEAGPARG RSRLAPNPGALRRG/VGLGR*S ARI*GLVSKAAAGQGEARRGE AT*ARGALGRTTAGSFNAGWL TLDGARQQPGRQTPTRIPSCVA DNAAGPSRTTTPD/EALRPLRG GPACTAPASFDSRAPYSASSAPS EGRWPSRGFPPI/PLYSQLPETR SHEWQAASKIQPRKASTSQ*SA RMEAT*QQWAGPPAEP*SLWFP RLARRSVVHWRTPY/ISSITSLP PVAAGIPEDSGPGSTQSSSRPGN TSSSRPPPPPPPP/QPLPPPPA GLASPRPVRARRPARQASF EPPRRMAP
21105	51473	A	21232	107	234	
21106	51474	A	21233	224	227	LPQPGPGRRRACLRQASPRQYS RLPGRPPPSG*SW
21107	51475	A	21234	67	607	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLLI MLGSVCHRGSPCGLSTHVENLL LEHQDAYQAGIVFPDCFYPSIC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLPWEKDTEKLVAF LFGITSHMAADVSWHSLGLEQ GFLRTMGAI
21108	51476	A	21235	54	193	
21109	51477	A	21236	1275	1764	STKCQYFSHLLLFSASESKQLL LYSAFFRYVPVKDLLGIYEKLYI CFISLLQTGL*RYQE*YHIHFIFS FSLP*LYPTYSTKSPFLVEQFQE YFLGGLDDR*NSCL*RSR*MAN SFDCFLSDSVLQGVVFSVVTSL FLFLFNSSKMQKNDFHRNLTS
21110	51478	A	21237	297	428	QCQRGPGCSRGHGI*I*EHWTA FGLDLRQWFARGSWASGHGP

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21111	51479	A	21238	3247	5958	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLL MIVMASLCHRGSSCGLSTHIEIG HRALEFLHLHNGHVNYKELL EHQDAYQAGTVFPDCFYPSLC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLPWEKDTEKL VAF LFGITSHMVADVSWHSLGIEQG FLRTMGAIDFHGSYSEAH SAGD FGGDVLSQFEFNFNYLARRWY VPVKDLLGIYEKLYGREVITEN VIVDCSHIQFLEMYGEMLA VSK LYPSYSTKSPFLVEQFQEYFLG GLDDMAFWSTNIYHLTSFMLE NGTSDCSLPENPLFIACGGQQN HTQGSKMQKNDFHRNLTSSLT ENIDRNINYTERGVFFSVNSWT PDSMSFIYKALERNVRTMFIGG SQLSQKHVSMPLRHHYFLSPY ARLGWAMTSADL\NQDGVHGD LRGWGAPGLTAAPAHIPHSGR VYLIYGNDLGLPPVDLDLDEKA HRILEGFQPSGRFGSALAVLDF NLDGV\PD LAVGAPSVGSEQLT YKGAVYVYFGSKQGGMSSSPN ITISCQDIYCNLGWTLAADV N GDSEPD LVIGSPFAPGGGKQKG IVAAFYSGPSLSDKEKLNVEAA NWTVRGEEDFSWFGYSLHGVT VDNRTL LLVGSPTWKNASRLG HLLHIRDEKKSLGRVYGYFPPN
21112	51480	A	21239	2	403	VVAEEDTEL RDLLVQTLNSGV LNRIKAELRAGVFLALEEQEKV ENKTPLVNESLKKFLNTKD\ LQ GLEGRENLARDLGIIIEAGTVG GPLLLEVIRRCQQKEKGPTTGE GALDLSDVHSPPKSPEGK TSAQ
21113	51481	A	21240	3	1699	

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21114	51482	A	21241	3	1812	APRLKMGLHPNKPIVSQSRVVN DGQCKLHAAVDSRDPPDGTKR RVSSGGTGLPGPGRGPGLPAGA WLSAEGRGAGGSGDCGPSSGS AEPTQRPPRPSALPGAIPPLHLG LAPFRLASEAVAEQAPPPAPTLS FGAQWSGAPQGSVSSVNPEGA GPARCASGRGFGCVGRVARAR SVPCCGRWPLARLRLRSWRSK MAATAAAVVAQEDTELRDLL VQTLNSGVLNR/IKAEALRAAV FLALEEQEKVENKTPLVNESLK KFLNTKDGRLVASLVAEFLQFF NLDFTLA/VFQPETS/TIF*LLF*L QGLEGRENLARDLGIIEAGTV GGPLL\LEVIRRCQQKEKGPTTG EGALDLSDVHSPPKSPEGKTS QTPPSKIPRYKGQKKKTSGQK AGDKKANDEANQSDTSVSLSE PKSKSSLHLLSHETKIGSFLSNR TLDGKDKAGLCPDEDDMEGDS FFDDPIPKPEKTYGLRKEPRKQ AGSLASLSDAPPLKSGLSSLAG APSLKDSESKRGNTVLKDLKLI SDKIGSLGLGTGEDDDYVDDFN STSHRSEKSEISIGEEIEEDLSVEI DDINTSDKLDDLTQDLTVSQLS DVADYLEDVA
21115	51483	A	21242	419	651	TNIFSRNLNPQTKNVFCARQLSS* SVTI*GVLGQAVTRYFSQALSC DWGTLLFSRAFLIMPESPTPLLGR RDILAKAGA
21116	51484	A	21243	555	888	RTSSRRTPNPCSRIRKNYFKFH MEPKKSP/S*PRQC*AKRTKLEA SCYLTSNYTTRLQ*PKQHGWG TIRSFSSHEAIFQTITWGKTLDN TRLSRTEVPAAAFHSALCPWFIET
21117	51485	A	21244	728	1428	
21118	51486	A	21245	238	505	INVGRHHVILQGLSCPGQLSSRS VTI*G/VLGQAVTIYFSQPLSCD WRTLLFSHVFLIMPESPTPLLGR DILLYVCIGRFPIFRADCRT
21119	51487	A	21246	940	1434	QLAPCTLTEPRVCLTIEGQEVN CFLDTRAAF/VLLSCPRQLSSRS VAIRGVLGQAVT*YFSQPLSCD WGTLRFSHAFLIMPKSPTPLLGR RDILAKAGAIIEKRAKAFMRKR EIKKQARSSKVHTSAASSCART APLGESFAEHLIKIADFTPPSSSS PCTTLFFS

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21120	51488	B	21247	747	1138	
21121	51489	A	21248	1685	2051	SSSRTEGARGKRQPMPS/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTPLLGRGILAKAGAIHH HAVLVTAAL
21122	51490	A	21249	2	1014	GGAGPVVLRRAACSPGPAPR AARPPAMEPGPDGPAASGPAAI REGWFRETCSLWPGQALSQV EQLLHHRRSRYQDILVFRSKTY GNVLVLDGVIQCTERDEFSYQE MIANLPLCSHPNPRKVLIIGGGE GG\VL\REVVKHPSVESVVQCEI DEDVIQVSKKFLPG\MAIGYSSF EADTYMWGDGF*VSWKQKQD AFDVI\IIDSSDPMGPAESLFKES YYQLMKTA/LLREDGVLCCQG \ECQWLHLDLIKE\MRQFC\QSL FPV/VLAYAYCTIPT/YTPSGQIG FMLCSKNPSTNF\QEPVQAVDN SSKVAKMQLK\YYNSERATAA AFVLPE\FARQGLE
21123	51491	A	21250	3	418	FSYEKLLNWQFAVDLEHHSY RSFLGLTCLKQISTRTEFIIDTL ELRRDMYILNESLTDPAIVKPL AEEMLSYARDDTHYLLYIDK MKLQMRERGNRQTVQLHVWW QRSRDICLKKFIKPIFTDESYLE LYRKLLK
21124	51492	A	21251	1	1704	
21125	51493	A	21252	1	3104	MFDTHQAARLLNLGRHSLDHL LKLYCNVDSNKQYQLADWRIR PLPEEMLSYARDDTHYLLYID KMRLEMWERNQGPVQLQVV WQRSRDICLKKFIKPIFTDESYL ELYRKQKKHLNTQQLTAFQLL FAWRDKTARREDESYGYVLPN HMMLKIAEELPKEPQGIIACCN PVPPLVRQQINEMHLLIQQARE MPLKSEVAAGVKKSGPLPSAE \RENVKSQPVQVHL*QRPVLT GRKLLPACTFYMPACWGL

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21126	51494	A	21253	2	2775	QALARRAVQAEKMAPSTREP RVLSATSATKSDGEMVLPGFDP ADSFVKFALGSVVAVTASGG LPQFGDEYDFY\RSFPGFQAFC ETQGDR/LCFQCMSRVMQVPM GC\RSN\IKDRSKV\TELEDKFV LL\VDAN\DVILERVGILLDEAS GVNKNQQPVLPAGLQVPKTVV \SSWNRKAAEYGKKAKSETFRL LHAKNIIRPQLKFREKIDNSNTP FLPKIFHSNPMVQ\KPLPQALSK ERRERPQDRPE
21127	51495	A	21254	3	2668	QALARRAVQAEKMAPSTREP RVLSATSATKSDGEMVLPGFDP ADSFVKFALGSVVAVTASGG LPQFGDEYDFYRSFPGFQAFC TQGDRLQCMSRVMQYHGC RSNIKDRSKVTELEDKFVLLVDAN DVILERVGILLDEASGVNKNQQ PVLPAGLQVPKTVVSSWNRKA AEYGKKAKSETFRLHAKNIIR PQLKFREKIDNSNTPFLPKIFIKP NAQKPLPQALSKERRERPQDRP EDLDVPPALADFIHQRTQQVE QDMFAHPYQYELNHFTPADAV LQKPQPQLYRPIETPCHFISSL DELVELNEKLLNCQEFVLDLEH HSYRSFLGLTCLMQISTRTE DFIIDTLELRSDMYILNESLTDPAIVK VFHGADSDIEWLQKDFGLYVV NMFDTHTQAARLLNLGRHSLDH LLKLYCNVDSNKQYQLADWRI RPLPEEMLSYARDDTHYLLYIY DKMRLEMWERNQGPVQLQV VWQRSRDICLKFKIFPFTDES YLELYRKQKKHLNTQQLTAFQL LFAWRDKTARREDESYGYVLP NHMMLKIAEELPKEPQGIIACC NPVPPLVRQQINEMHLLIQQAR EMPLLKSEVAAGVKKSGPLPSA ERLENVLFGPHDCSHAPDGY PIIPTSGSVPVQKQASLFPDEKED NLLGTTCLIAVITLNFNEPSAE DSKKGPLTVAQKKAQNIMESFE
21128	51496	A	21255	98	286	HARPRHGPRLRCEVGLRCAPG YAGASARPTCECGDTRYCPQDP NQT*SRPVPIIAHRYCLTG
21129	51497	A	21256	1020	1280	
21130	51498	B	21257	153	3804	

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21131	51499	A	21258	159	579	PNVRWCPSICYRNQDDHELQIT HGKILCGIVWKKIAQVEQMR KFSRLEKQRTHTVLSCSDLQAVR RFRGVVSEGSFEMGEKVYKRK DMFQLSLLTEQHGDSTLGS GSS YTQMPAENGSLVHTLVTAAPPF FAEKPHSITAG
21132	51500	A	21259	1	1290	MGASRSQKPGPSRDYSYTAGC DVDQRRRGAQKLSRSDTKRIV MSYGKKALKNDKFEIRAFSSSL EVRYRNQDDHELQIHTGTRFY VELCGFAVTRLRDPMLRHAA MALLPWRPPDYSASLLPDWLP VPSSKVITYPGFTSIWAFSNT T/LCSEYKYYCEECSKQE/AHK RRKV*KLP MILAP/HLKRFKYK DQLHRFTKLFTRASLRGPRDER LKRVSRLFLSLVVVTSRVFDVL LRILHRLGQYVSSEYYVALMCS EGHGPGAEDVTELLQSHEKTE WMRSCFFWMTKSGVFDGIYLW NAFNQEGEDLYKENCKTLMKE VEDAQINGKTSYAHGSEEYCK MSILPRILLQISRDDCFKIVLKF CVDHQTKKCCMITLKSSVVQ LAFTIKISVSEMCAREDFVVVIS FQHSEVPSRQLARCTFKEGYT
21133	51501	A	21260	3	142	
21134	51502	A	21261	1	1368	

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21135	51503	A	21262	1	2420	MEEVAEAPQPIDPKPLATQPQSI IITTTITTTITTTTTITTTTTITTTIT IITTTITTTTTITTTITTTITTTITTT TITTTITTTITTTITTTITTTITTT VITTTITTTITTTITTTITTTITTT QADECWGEAEPLMSRQAHVW LRYRTGCREERPDQELTGSWG HGPRSTLVRAKAMAPPPPLAA STPLHGEFGSYPARGPRFALTL TSQALHIQRLRPKPEARPRGGL VPLAEVSGCCTLRSRSPSDSAA YFCIYTYPRRRGARRKATRTF RADGAATYEENRAEAQRWAT ALTCLLRGLPLPGDGEITPDLPL RPPRLLLLVNPFGGRGLAWQW CKNHVLPmiseAGLSFNLIQTER QNHARELVQGLSLSEWDGIVT VSGDGLLHEVLNGLLDRPDWE EAVKMPVGILPCGSGNALAGA VNQHGGFEPALGLDLLNCSLL LCRGGGHPLDLLSVTLASGSR FSFLSAWGFVSDVDIQSERFR ALGSARFTLGTVLGLATLHTYR GRLSYLPATVEPASPTPAHSLPR AKSELTLTPDPAPPMASPLHR SVSDLPLPLQPALASPGSPEPL PILSLNGGGPELAGDWGGAGD APLSPDSTAGFTSWLSQGSSTLT RLRRGPRNSPILWAPTSHP*CPG RGLH\RGPPDHLLPPLGTPLPPD WVTLEGDFVLM LAISPHLSAD LVAAPHARFDDGLVHLCCVRS
21136	51504	A	21263	573	1025	RKQSHEDWRSTNKTVGHPSA RLYEPPWWAHTWTPPGGSKAP SDP/PLSHQLSPPAGQPHFASPEP TSKTPDPWPGNVFSSFLPQSLP ELRHTLYLPMGTTKPPGSSMIF YT*AQYPGTNSSATICRLLSYKS GQVYPNTGQAPPQRRGR
21137	51505	A	21264	48	327	EELEALRR\QRLAELQAKHGD GDA\AQQEAKHREAEMRNSILA QVLDQSARAR\VSEQGLIEILKK VSQQTEKTTTVKFNRKVMDS DEDDDY
21138	51506	A	21265	1	400	
21139	51507	A	21266	786	905	VSEQGLIEILKK*CQLTEKTSTV KFNRKVMDSDEDDDY

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21140	51508	A	21267	907	1327	PRLQIRSTPSPWRTEELEALRR\ QRLADAAGQNTGDPGDAA\QQ EAKAPGQAEMRNSILAQVPGSS PAPAPRLSNLSHLVKP*KNLKP V\ENYPYTRLARYWTT*VMTGI RNQGFN*KSLKKVKAQ\QTEKT TTVKFNQKKK
21141	51509	B	21268	1	828	
21142	51510	A	21269	317	2390	KWPKMNPQQORMAAIGTDKE LSDLLDFSAMFSPPVNSGKTRP TTLGSSQFSGSGIDERGVGTTSW GTSGQSPSPSYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSESGSFLYSRDTGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRPLH DSAALDPLQAKKVRKVPPGLPS SVYAPSPNSDDFNRESPPSPK PPTSMFASTFFMQDGTNSSL WSSNGMSQPGFGGILGTSTSH MSQ\SSSYGNLHSHDRLSYPPHS VSPT\DINTSLPMSFHRGSTSS SPYVAASHT\PPINGSDSILGTK GNAAG\SSQTGDALGKALASIY SPDHTSSSFSPNPSTPVGSPSPLT GTSQWPRPGGQAPSSPSYENSL HSLQSRMEDRLDRLDDAIHVLR NHAVGPSTSLPAGHSDIHSLLG PSHNAPIGSLNSNYGGSSLVASS RSASMGVGTNR\EDSVSLNG\NH SVLSSTVTTSSTDLNHKQTENY *RWPKCSQSGT\VVPQEIKT\EN KEKDENLHEPPSSDDMKSD* SSQKDIKVSRRGRTSSTNEDEDL NPEQKIEREKERRMANNARERL RVRDINEAFKELGRMCQLHLKS EKPQTKLLILHQA VAVILASLEQ QVRERNLNPKAACLKRREEEK VSAVSAEPPTTLPGTHPGLSETT
21143	51511	A	21270	2	153	QNASSPSKGSQLLTSKGTCLDG E*V**INRSRLQKVANNKLLWR KLKGQF

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21144	51512	A	21271	1	1230	MRKTQCKNAESSKNQNASFPP KDHNSLTAREQNWIENEFGELT EVGFRRLNQEEVEFLNRPITGSE IEAIINSLATKK\GPEGFIAEFY*R KTQCKNAESSKNQNASFPPKD HNSLTAREQNWIENEFGELTEV GFRRLNQEEVEFLNRPITGSEIE AIINSLATKKRTRGIHSRILLEVI TSFYVERGGNAMSFMGKGVTK STILCLLHLSHEMMAQAGSLE WMSLWFLPLGSHSEEHPTQQG LAWLIPLWVDRDPEVRFTSLGL GSALTLETGCVALANSCQNIS GGLWGTVVNILLDQSECSMVR RESQHHVDVAKVYHLHPPPEW WPKLYLGPLDHSRELRSVLEC MEQRLEVTLGTPYFSVPISKFI QAVTTKCLRLGASRFSVCLAGL SAAPEQKIHPPPTQQFQQLPHD SVGFLQFSLHPKGNFGSGISSPD RSGDASHYSYPSLWQIRGTSRV KKQTWGSGNLKKWGIHKVQP QRLMMQNDDTEESI
21145	51513	A	21272	1	987	
21146	51514	A	21273	180	466	ARGSERAAASFASMYEGKKT KNMFLTRALEKILADKEVKKA HHSQLRKACRIVALEGNKAETE KQSPPHGEAKAGISTLPPVKSK TNFIEADKYF
21147	51515	A	21274	1	1224	
21148	51516	A	21275	251	5986	SCRCPPRLQSPTSTPSPFSLFLP LLLLPSSRWEPVGRAAASFSA SMYEGKKTKNMFLTRALEKIL ADKEVKKAHHSQLRKS/CGRV ALEEIKAEOTEKQSPPHGEAKAG SSTLPPVKSKTNFIEADKYFLPF ELACQSKCPRIVSTSLDCLQK LAIAYGAL*LGNAPDSTTPGKKL IDRIIETICGCFQGPQTDEGVQL QIIKALLTAVTSQHIEIHEGTVL QAVRTCYNILASKNLINQTTA KATLTQ
21149	51517	A	21276	46	214	KLRLTTTSVYAIPNRRRYDGFK LVQSCIFI*NFRS*DLRPPQYMPF LIEGGMTVSNSCRAAFSFTSLC RHRFSEAWLQNTNTGGFGSTF
21150	51518	A	21277	306	616	
21151	51519	B	21278	47	927	

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21152	51520	A	21279	660	890	GGKITASGSPVPRPSGA*ALPSG RCSTPRTSSCPRLPEPPGL\PS PSAPANTTPDDSHAAP*GTRAH THRPPHT/PTAPSRPPTSPPVAT RTAPKAPQ/HHP/PTSCPTQRPT DSPSVHEPSQPLATQHSTQPI*P VIVTQ
21153	51521	A	21280	3	213	
21154	51522	A	21281	349	2616	TTAMAHRKLESVSGSMLDHRV RPGVPVPHSQEPESDMELPLEG YVPEGLELAALRPESPAPEEQE CHNHSPDGDSSSDYVNNTSEEE DYDEGLPEEEEGITYYIRYCPED DSYLEGMDCNGEEYLAHSAHP VDTDECQEAVEEWTDAGPH HGHEAEGSQDYDPDRQLPIPEDE PSVLEAHDQEEDGHYCASKEG YQDYYPEEANGNTGASPYRLR RGDGDLEDQEEDIDQIVAEIKM SLSMTSITSASEASPEHGPEPGP EDSVEACPPIKASCSPSRHEARP KSLNLLPEAKHPGDPQRGFKPK TRTPEERLKWPHQVCNGLEQP RKQQRSDLNGPVDNNNIPKTK KVASFPSLVAVPGPCPKNLID GIIFAANYLGSTQLLSERNSPK NIRMMQAQEA VSRVKRMQKA AKIKKKANSEGDAQTLTEVDLF ISTQRIKVLNADTQETMMDHAL RTISYIADIGNIVVLMARRRMPR SASQDCIETTPGAQEGKKQYK MICHVFESEDAQLIAQSIGQAFS VAYQEFLRANGINPEDLSQKEY SDIINTQEMYNDLIHFSNSEN CKELQLEKHKGEILGVVVVESG WGSILPTVILANMMNGGPAAR SG\KLSIGDQIMSINGTSLVGLPL ATCQGIKGLK*PDHR*SFNIVS CPPV/TPRFLYSKRPLKYQLGF SVQNGHICSLMRGGIAERGGVR

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21155	51523	A	21282	20	771	TTPNKQHMMQTRAGSAWYLR SRGCSQGAPQKASSGSGGSSW NRSVATVPGIVLGWRRPELLSE RGCAEARGAGVAGRQRLQLTG VQGKSVVRGRGLLGRREWCR GGGAAPRPTAGTPVPRRPGTR AGPEEGEGAGAGARAAPEPRP HALSPPAAFGADGQLRPLLLTS LRAHHPGRGGLLTSPGTHQPR RGRQGTPPPASPSPA/PEEGALP GVLPL*PPSPSP/SESPPRPHG GGALAVTRRTAA
21156	51524	A	21283	1615	1985	LGSTRQAAPGQLRGHQAPAPN SDATAGQGRCRRSAD*GWGSR EQI*ALPLPSGPAPLLPPLLPLL PVPPSPPPSPSPSPPLPP/GPP* PPLTFSVVTGGLWCPPHRKSL NPTSKGVNEY
21157	51525	A	21284	3	501	
21158	51526	A	21285	1	2646	
21159	51527	A	21286	31	319	VIQDLHVPPREESAEQVDDPPE PVY\RT*RGSPGPLHRAPLQPPF PARCGRRTTRTRAPGAPTTTTQT RELPPGSRPLRLRVPPAQPPL PRWTAT
21160	51528	A	21287	3	147	
21161	51529	A	21288	20	600	PVTPRRTILPWALSVSPALPLP* PHPPAGLVMSARTSRCSTPTTS LRSSG*GWRTPTGSHTSTIQRTP LFDGSCPRSLSPLEASINPARM VTPQPRPALQRRRSQQSWMRL GAGRKSLLPQLL*GPRPWTRQG CSIAPRRQTRESGSGRSTGVPPG LCWRVAS*HSSRTQRPRLQAA* GSLPSFPPLSTQWS

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21162	51530	A	21289	383	1800	TCSTQTSLRNPPRRPRAASLPQT CSRSPRPSRAHSLTGRPPRFQSQ MPSRSPCC*IC*NIRIDLCGS\TH SDGRFELVFSGKKLALRASSQD EAEDWLDREVREALQKVRPQQE DEWVNVQYPDQPEEPPEAPQG CLSPDLLSEPAALQGTQFDWS SAQVPEPDAIKESLLYLMDRT WMPYIFSLSLEALKCFRIKNNE KMLSDSHGVETIRDILPDTSLG GPSFFKIITAKAVLKLQAGNAE EAALWRDLVRKVLASYLETAE EAVTLGGSLDENCQEEKNNTK HTTARNAFEENDFMENTNMPE GTISENTNYNHPPEADSAGTAF NLRPTVKQTETKWEYNNVGTD LSPEPKSFNYPLLSSPGDQFEIQ LTQQLQSLIPNNNVKLIHVR TLKMDCSGTHVQVTCAKLISRT GHLMKLLSGQQEVKASKIEWD TDQWKIENYINESTEASQEQKE KSLEAASGTQDGVHVQEP RPQ APSPLDLQQPVESTSSQQPSSTV SETAREVGQGNGLQKAQAHDG AGLKLVSSTSPQQVCKLWW SAGLHTPPPVTS LGTVGLQGPQ QRFPKFPDFFHPLEISCGKVA
21163	51531	A	21290	2	667	
21164	51532	A	21291	84	377	RMGKHCFENLLFRDGKAQRAC MGYTVCHSHIVGSGQKCWPA WPQVNLQPSRHQQVCCSLPRC AKCKTVFHQSCQAVVKKGCPR CAR*RKYQQQNVFA
21165	51533	A	21292	2	1168	FVLPVVS GRE TASSARRLRGCR SREPPSPRSSRLVSCDSLREQ REWRCFQWWRMDWTPRLPSR HIISEHLTFVNMDVGRCAW LRLALNGLMECYLKL LQ\EQ ARLREYYQPTALLRDAEEGEFL LSFLQGLMSLSFELSYKSAILNE WTLTPLALSGLCPLSELDPLSTS GAELQRKESLDSISHSSGSEDIE VHSHGHKIRRNQKPTASSLSLD TASSQLSCSLNSDSLQENG KSPDHCEEPMSYDSDLGTANA EDSDQSLQEVLLFESKAQAASG TQDGVHVQEPHPQAPSPLDLQ QPVESTSGQQPSSTVSETAREV GQGNGLQKAQAHDGAGLKL VSSPTSPNISSMIQSTRPVHFCIV STKHCTWEKVGMD

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21166	51534	A	21293	263	813	
21167	51535	A	21294	130	1094	NQPHRTKGCPNSSTECKNGSLT CDFMQVPIEMGKLRPEGERRV QDRDSNPSLSPSAGLFQARWS* PPRPSFLLPAGKRRGCDGGGRG GGRVRAGGAPLRVHRQGRAPP QSTEHWVHVRRKPGGRPFYLP AQYVRELPA LGNPAADAPPGPP IGTRSP*AARLRLPVRERGC GSG PQRPPSGAPRRGQLPVRPCAAR RREP/RAAAWRPACPPACTCGP\ GARAARAVPGRPDARRRLASR RQPRKQRQLQGLQRSGLLGVP AAPVAQRLRERLRGHPGGTRP AAVGDREAGTTPGAEAGRLAE DSARREPGLEENHSAQRRRA
21168	51536	A	21295	2	3676	
21169	51537	A	21296	432	3453	DLAGEVLLCGGAADYGT LGFS SPAVQEANRGALCSSIERGHIIS ELEHLTFVNTDVGRCAWLRL ALNDGLMECYLKLLLQE QARL HEY YQPTALLRDAEEGEFLLSF LQGLTSLSFELSYKSAILNEWTL TPLALSGLCPLSELDPLSTSGAE LQRKESLDSISHSSGSEDI EVHH SGHKIRRNQKLTASSLSLDTASS SQLSCSLNSDSCLLQENGSKSP DHCEEPMSCDSDLGTANAEDS DRSLQEV LLEFS
21170	51538	A	21297	64	2996	LCPPAQPAASQPQVELPAGWPQ PHALPLPHDHRAQHLLGCAHP GRAKPELQQHHDCACAAQIPHI PVRQPYQHDPPLCQPRRPACP ALPIHGRQLLLQEPLQAGTGGG PGCPPWPGQPHPPVTQVQQPHC GAPQAFQPGVSAVVLGRIVK LAPEDLANLTALRVLDVGGNC RRCDHAPNPCMECPRHFPQLHP DTFSLSRLEGLVLKDSSLSWL NASWFRGLGNLRVLDLSENFL YKCITKTKAFQGLTQL
21171	51539	A	21298	1	320	PVRTPPIPAFSPLKTLRIMSLHQF LLEPNCGRPQLCRGTMARKPAP RKH*KHISRQCRVVLFEYKIGES VGFFKAVIFLFLRFHSILDQS FSLSSLLWKIVTLT
21172	51540	A	21299	1	443	
21173	51541	A	21300	1	1059	

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21174	51542	A	21301	116	1559	PRTARPSCAHARTVRAVATRRR RVHFRDLAAPSGLSVLRPRPT EPVRVDCPESANPPVRARPDSP DPRMFELLAASDARINGPFCAP RVLLAPLLGAFVTVSKIISKIAL SPK*SRRSHLLRRNGSQWVKV H\ELKEHNG\HITGID\WAPKSD RICH/CLGADRNCMLMVWS\QK\D GVWKPNPG*FLRNLI GGGNFL* KWVPPRRTKFGCGGSGARLISV CYFESENDWWVSKHIKKPIRST VLSLDWHPNNVLLAAGSCDFK CRVFSAYIKEVDEKPASTPWGS KMPFGQ\LMSEFGG\SGTG\GW VHGVSFS\ASG\DRLGWGSATD ST\VSVA*CLQKV VQVSTLKT\E FLAAP*VVSFVSREPASGLPAH DC\CPMLFN YG*PRAALTFRLP KLDIPK\QSIQRNMSAHGNAFG NMDKRATTED\ RNTAL\ETLH\ QNSITQVLYLLRWDKQD\CRKF CT\TG\DGEPWTIWDFQDPRSL PSQGLRIM

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21175	51543	A	21302	1	2223	MKHYTRVQSSISPPAERQETHA WASPAVTSLESAACHELQEAD LSELSYPRIVSSSSLQYYVAQG GSFPCFGMPWNFISGGAESTNA VISFANATTAVPMAVLSRRESS LANNPGVVNYSALPENENVGP EMPERPANSSKNSTETANYPTL MGNYNGQNTASLSVFIPPYFAE KIILTEMPGTTETNVENNSQTV YYPALSGNTSAPYPASSYLPITS NFVLERVAEMPETAGTNVKNN TQTVNYPSSGRGRSQGNASLS LSIPPKFGIERHLGCFLVLAIRSK AAMNIIYHIGFV*TQAFISLRY/ MPKSAVAGSYGNALQNVLHIE MLFKTESGPQMSYGTMSYSYE MKNNCDQDDASASACLTPDFA LLPLNILVKVDTNTENSVNTMN RSTLLDSDSGQDSSSSSVCIPPK YGYLGDPKRNVRVLKIHLLAV QNMAKPKQAACYLVRLFSKEI LISSVDIHLKDSQSLDPNKMA ALREYLATTFPTCDLHEHGKD WQDCISGINSMIYCLCSEGKSTP KTVRKNNKRTNRVASASADRN DQRGRDGGEGCSWMFQPMNN SKMREKRNLPNSNAIPEGMRE PSTDNPEEPGEAWSYFGRPWRN IRMPCSVLTAKTKSCASLSAR YLIQKLFTKDVLVQSNVYGNL KHGLCALDPNKISALREFLQEN YPICDLSNGRDWKSCVTSINS
21176	51544	A	21303	1	297	
21177	51545	A	21304	1	162	
21178	51546	A	21305	11	212	KGKNCVAIAADRRFGIQAQMV TTDFQKIFP/MGAQRLKFRNLN YELKEGRQIKPYTLMSMVANL LYEK
21179	51547	A	21306	37	554	SSIKFGRSNPDYWIALPSRNLDP AIMSIMSYNGGAVMAMKGKN CVAIAADRRFGIQAQMVTRDF* KFFPMG*PACTPGMAGFAIDVQ TVAQRLKFRNLNLYELKEGRQIK PYTLMSMVANLLYEK/RDPDHL FETISQAMLNAVDRDAVSGMG VIVHIEKDKITRTLKARMD

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21180	51548	A	21307	51	741	YTAIMSIMSNGGAVMAMKGNKCVAIAADRRFGIQ\ARLLTTNFQKIFPMGDRLYIGLGGASPLDVQTS/VAQRLKFRAEPVMS*REGRI\KPYTLH*AMGGQPSLL*EKVFGPLTYTE\PVHLPGLGPERPFKALSICFSKTLIRVGPMDLNDFCGSSGNLAPNKMYG\MCESLWGGPTWDPDHLF*KPFSQGHG*MLWDRDGS/VSGMGSSLFHIIEKDK\IPRTLKARMD
21181	51549	B	21308	150	404	
21182	51550	A	21309	199	395	
21183	51551	A	21310	100	182	SFLFWIKR*SFPDALYFSSKSGACSCN
21184	51552	A	21311	203	289	KCLALDIALATRRSAI*FPSVKG PGRGV
21185	51553	B	21312	166	411	
21186	51554	A	21313	232	317	KCPALDIAVATRRSAI*FPAVKGPGRGV
21187	51555	A	21314	129	278	FYSSVSGVSSKDDRRFGCSGYSAAVISFRQC*SQLPGCSATYQRESTFS
21188	51556	A	21315	789	962	
21189	51557	A	21316	477	599	
21190	51558	A	21317	86	577	ATEPLAPSERREVSIPLLVPAPLPPPPRPPVPSRTRTRPWRP*ACFPMTLAASCGPTRSPWPSQQPIPQPAPVG/PGNIKTLGDAYEFAVDVRDFSPEDIIVTTSNNHIEVRAEKLAADGTVMNTFAHKCQLPEDVDPTAV\TSALRKDGSLTIRARRDPHTEHV
21191	51559	B	21318	312	466	
21192	51560	A	21319	886	1338	GFWQVIRALRGGEVHREGTSA PGRHRRRCGRSAWNRCTACSHVWPPRQMWPQG/PDVAMKTGNIKTLGDAYEFAVDVRDFSPEDIIVTTSNNHIEVRA/REA/ERPDGTVMNTFAHKCQLPEDVDPTS VTSALREDGSLTIRAWRHPHTEHVQ
21193	51561	A	21320	3	605	KKLTPVVRSRVERDPRVRRGLRPHPVLSSLRPPGQGPAPSVDEPQNLFHLPSGEKIPFLLLLLLFTPPRPPVLSRPRTRPWRP*ACFPMTLAAICGPTRSPWPSQPAPV/VAGNIKTL*DAYEFVVDVRDFSPEDIIVTTSNNHIEVRPEKLAADGTVMNTFAQQCQLPEDVDPTSVTSALREDGSLTIRARGHPHTEH

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21194	51562	A	21321	3	450	SSAAEVQEPRGAPGSPSIPSASR PGPAPRPASLPPSQMQAAALPE EIRWLLEDAEEFLAEGLRNENL SAVARDHRDHILRGFQQIKA\G GDIGQDSSDDNHSGTLGLSLTY DAPFLSDYQDEGMEDIVKGAQ ELDNVIKQGYLEKKS*DH
21195	51563	A	21322	1	399	IGQDSSDDNHSGTLGLSLTSDA PFLSDYQD/EG*VHQISDHWEK LRTWC*VYCDKGMEDIVKGAQ ELDNVIKQGYLEKKS KDHSFFG SEWQKRWCVVSRLFYFYANE KSKQPKGTFLIKGYSVRMAPHL RRDS
21196	51564	A	21323	3	1189	RLPARPPPDQGRPVPPLSRPAK CRLAVLPPEIRWLLEDAEEFLA EGLRNENLSAVARDHRDHILRG FQQIKARYYWDFQPQGGDIGQ DSSDDNHSGTLGLSLTSDAPFL SDYHDEGMEDIV*GAQELDNVI KQGYLEKKS KDHSFFGSEWQK RWCVVSRLFYFYANEKSKQP KGTFLIKGYGVRMAPHLRRDS KKESCFELTSQDRRSYEFTATSP AEARDWVDQISFLLKDLSSLTIP YEEDEEEEEEKEETYDDIDGFDS PSCGSQCRPTILPGSVGIKEPTEE KEEDIYEVLPEEHDLEEDS GTRRKGV DYASY YQG\LWDC\ YGDQPDDL SL\QRGDLILFLSKE YNMYGWVVGELNSLVG\IVPK EYLHHLPLKWKERWKPREIYFF
21197	51565	A	21324	47	225	NSHHVRGRPRCADSSSPSGDRG QPEAQPADSSAPEHAQEPGRA AVKR PDL*SHMTRRP

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21198	51566	A	21325	66	725	AILIILLSSEGLWSSDQHRLVGV QDSPPQGSGLGCYFSAMATSEQS VCQARASVMVYDDTSKKWVPI KPG\QQGFSRINIYHNTVSNTR VVGVKLQDQQ\VVINYIVKGL KYNQATPTFHQWRDARQVYG\ LNFASKEEATTFSNAMLFALNI MNSQEGGPSSQRQVQNGPSPD EMDIQRRQVMEQHQQQRQEFL ERRTSATGPILPPGHPSSAASAP VSCSGPPPPPPPPVPPPTGA\TP PPPPPL\ PAGGAQGSSHDESFHV QDWPLAISWGPSLRRVPNGPED ASGGSSPSGTSKSDANRASSGG GGGGLMEEMNKLLAKRRKAA SQSDKPAEKKEDESQMEDPSTS PSPGTRAASQPPNSSK\AGRKP WERSNSRGYFCVLDVQNPAL WPKSPES*EPPSVSSL\SRMKPA GS\VSDMA\LDAFDLDRMKQEI LEEVVRELHKGERKEIID\AIRQ EA*SGISRKKNLGHRAHPPTRTS FICSQRPRLM
21199	51567	A	21326	301	390	
21200	51568	A	21327	72	415	
21201	51569	A	21328	395	697	RVMSPVHVNTICSPHPSDGDV IVPIVLSNERYHWPVVGWVGG VDCDEFFRVVLGEARLHLDGV AHQH*TKEGTISNLFQATSVSH LVEVVPQKLSWVI
21202	51570	A	21329	36	399	VEILTSKRAGDWFKEELRLLGG LDHIVDKVKECDHLSRDEDEE KLVASLWGAQRCLRVLQSVTV HNPENQSYLIAKDSQLIVSSA KALQHCEELI*QYNRAVDTLCL ADCKPLPHPTVL
21203	51571	A	21330	1	177	
21204	51572	C	21331	198	350	
21205	51573	A	21332	113	228	
21206	51574	A	21333	1	466	

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21207	51575	A	21334	1	4133	ASGCWRKEVGAGSANGVEMV QGPVQTPALTIHRRKRRRRRRR RPSGGTQQALLPAPAVAASES* ARARPAALEAGREVAGPP\SCPP NRASYLPKAESLASLGSHLPAL LSRARVPRPPAGRKERE\RRKRP \VAKAPARLARGEYETGVKMTS RFAKTYSRKGGNGSSKFDEVFS NKRTTLSTKWGETTFMAKLGQ KRPNFKPDIQEIPKKPKVEEEST GDPFGFDSDDSLPVSSKNLAQ VKCSSYSESSEA
21208	51576	A	21335	3	221	
21209	51577	A	21336	1	580	
21210	51578	A	21337	2	1095	ARGNRPPPPRTERGVLESRTS RHRAPRLPPAMPAPRAPRALAA AA\PASGKAKLTHPGKAILAGG LRGG\IQCMTFPTHEYVKTLQL \DERSHPPRYRGIGDFVRQTVRS HGV\LGLYRGLSSLLYGSIPKAA V\RFGMFE\FLSNHMRDA\QGR DSTRGLLC\SLGAGRGRP*VV VCPMETIKVKFIHDQTSNPKY RGFFHGVREIVREQGL\KGTYQ GLTAT\VLKQGSNQA\IRF\FVM TSLRQW\YPRGTTPNKAHEPF*I TWGSFGA\IASASQVSFGNTPLD VI\KTRMPGPWRPHK\YR\NTWD \CGL\QILKKGGSRAFYKGT PPLGPGLAWDVA\VFVIYDEV G*SCFNK\WKNGIKA
21211	51579	A	21338	3	375	TAGDSGAEDGPASRVSQMPTLP PPMPWNLPAGVDCTTSGVLAL TALFFKMEEANLASRAKAQELI QATNQILSHRKPPSLGMTAPAP VPTSLGLPPGPSSYLLSGSPPLG GC\GSTPPTPPGLAA
21212	51580	A	21339	51	3789	GRGHPHGGGELLPASPRGSPEG DQPGQGDPEEKEGRVVPARGGA PDVPSAHALVPEPQTVLGLHQR VTAQPGRHGAH*LHGDRHLHSG RPQRPTHTGWAPCLPYPTLGSG *RRHHGNPACTPRSLLFPFPEK ELEAPPPAPRFDIYDPFHPTDEA YSPPPAPEQKYDPFEPTGSNPSS SAGTPSPEEEEEEEEEEEEEEEEED EEEEGLSQSISRJSETLAGIYDD NSLSQDFPGDESPRDAQPTQP TPAPGTPPQ
21213	51581	A	21340	286	393	
21214	51582	A	21341	64	610	

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21215	51583	A	21342	1	4433	MWAQLLLGMLALSPAIAEELP NYLVTLPARLNFPSVQKVCLDL SPGYSDVKFTVTLETDKDTQKL LEYSGLKRRHLHCISFLVPPAG GTEEVATIRVSGVGNNSFEEK KKVLIQRQGNGTFVQTDKPLYT PGQQVYFRIVTMSNFVPVND KYSMVELQDPNSNRIAQWLEV VPEQGIVDLSFQLAPEAMLGTY TVAVAEGKTFGTFSVEEYVLSP FLLLSSVLPKFKVEVVEPKELS TVQESFLVKGG*
21216	51584	A	21343	3	522	ELRTWIEGLTGLSVGPDFQKGL KDGTLCTLMNKLQPGSVPKIN RSMQNWHLNLSNFIKAMVS YGMNPVDLFEANDLFESGNT QVQVSLLAGKMGTKNCASQ SGMTAYGTRRHLYPKNHILPP MDHSTISLQMGTKNCASQVG MTAPGTRRHIYDTKLGTDKCD
21217	51585	A	21344	1	1230	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCQ RAPSPYTHQDTALIPSPTARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSSTQFNKGPSYR LLADVQNRLLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKIN\ASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNNMQVR VSLLAGKAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSGQVFGGLGRQIYEPKY
21218	51586	A	21345	2	389	

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21219	51587	A	21346	1	1113	MHQEDLRAWYLDLGLPSHQN AQPTAWKCQRAPSPYTHQDMA LIPSPTARWLSPEKEPKQGEVG EKSLLPDPTLPLTDPRLTGSTEQ AHAEGLAALMSALRVSHLQGR GGVVTLVDSQLGVIAVSSTQFN KGPSYRLLADVQNRLLPKYDS QKEAELRSWIKGFTGLSIRPDFQ KGLKDGIICTLVNKLQPGSVP KIN\ASV*NWH*LENLSNFLKA MVSYGM/NPVDLFEANNLFESG NNMQVRVSLALAGKAKTKGL RSGVDIRDKYSEKQNFDDTTM KASQCVIRLQITNKCASQSGMT AYGTRRHLYDPKNRILPPMDNS TISLQMGTNKCASQVGMTAPG TQRHIYDTKLGDCKENSMSL
21220	51588	A	21347	353	1260	SCWCLKLALAVSST/QFNKGPS YRLLADVQNRLLFKYDSQKEA ELRSWIKGFTGLSIRPDFQKGLK DGIICTLVNKLQPGSVPKIN\AS V*NWHQLENLSNLIKAMVSYG M/NPVDLFEANDLFESGNNMQ VRVSLALAGKAKTKGLQSGV DIRDKYSEKQNFNDTTMKARL CVIRLQITNKCASQSGMTAYVT RRHLYDPKNRILPPMDNSTISLR MGTNKCASQVGMTAPGNQWH IYDTKLGDCKENSMSLKMGY TQVANHSRQVFGLGRQIYEPKY QPGGPVAHGAPSAGNCPGPE
21221	51589	A	21348	3	530	
21222	51590	A	21349	1	853	MPESWLAAPFPYGDIIKVVGL QLKEGLHQNLTMQDSIQIFDFQ LPGLLRPSSVLWTLKPYHTAGL ASDRDSYKGILACMPCMFGSRR SPLRDIKSHQADLELEVKNSLD TIHRLESELKKQSKIQSQMKVE KAHLEEEIAELKKSQAQDKAKL LEMQESIKDLSAIRADLANKLA EEERAKKTSAGAFGP/LIAQAN SRDEGTATITQLELERDVHQRE LKDLTSSLQSVKTKHEQNIQEL MKHFKKEKSEAENHIRTCLKVPL LNYPDDTEGIFLVAHEVNKA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21223	51591	A	21350	1	652	NTSLINTKKKLETDISQIQGEME DIIQEARNAEKAKKAITDAAM MAEELKKEQDTSAPHLERMKKN LEQTVKDLQHRLEAEQLALK GGKKQIQKLEARVRELEGEVES EQKRNVEAVKGLRKHERKVKE LTYQTEEDRKNILRL\QDL\VDK LQAKVKSYSYKRAEEAEQSNV NLSKFRRIQHELEEDF\RADIA ESQVNKL RVKSREVHTKIISEE
21224	51592	A	21351	21	5868	PAAMSSDSEMAIFGEAAPFLRK SERERIEAQNKPFDAKTSVFVV DPKESFVKATVQSREGGKVTA KTEAGATVTVKDDQVFPMPNP KYDKIEDMAMMTHLHEPAVLY NLKERYAAWMIYTYSGLFCVT VNPYKWLVPYNAEVVTAIRG KKRQEAPPHIFSISDNAYQFML TDRENQSILITGESGAGKTVNT KRVIQYFATIAVTGEKKKEEPA SGKMQGTLEDQIISANPLLEAF GNAKTVRNDNSSRFGKFIR
21225	51593	A	21352	54	399	
21226	51594	A	21353	441	1585	VPPMGGGPPFVGPVGFPGDRS HLDSPEAREAMFLRAAVAPQ RAPILRP AFVPHVLQRADSALSS AAAGPRPMALRPPHQALVGPP LPGPPGPPMMLPPMARAPGPPL GSMAALRPPLEEPAAPRELGLG LGLGLKEKEEAVVAAAAGLEE ASAAVAVGAGGAPAGLAVIGP\ SLPLALAMPLPEPEPLPLPLEVV RGLLPP\LRITELLSLRPRRPPR\ PEPPPGLMALEVPEPLGEDKKK GKPGEIEHRCIATA/AQGASWE DPPTCWKWDAE*LSRVFCGDL G\NEVND*HLGHAASARFPIPSL KAKVIR*QSAQARPKGYGFVS FKDP\SDYVRP\MREMNGKYVV LAPPIKLRKSMWKDRNLDVFR KKQKEKKKLGLR

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21227	51595	A	21354	1	1122	MPGGKIGFLIEKGATEQSSTGN DFDELREEGRRSNYSELQEDI QTKGKEVENFEKNLEECVTTIS NTEKCVKELMELKTKARELRE ECSRFRSQCNQLEERVAMPKDE MNEMKREGKFREKRIKRNEQS LQEIWDYVVKRPNLPLIGVPESD RENGTKLENTLRDIIQENFPSLT RRGQPFRIMENTENAPKDNLLE KEQLPRHNNCLELTQEEPAWD LQFDLLDLNDISSALKHHEEKN LISLLPQRGADYLSFRSHFQKNF VCVENC SLQERTVTGTVKVKN VSFEKKVQIRITFDSWKNYTDV DCVYMKNVYGGTDSDTFSFAI GLPPVIPTEQKIEFCISYHANG\Q IF\WDNK*WGRKYKNCVIVQW
21228	51596	A	21355	71	1124	GPPPLCLMSCTRMIVLDPRPL TSSVMPVDVAMRLCLAHSPPV KSFLGPYDEFQRRHFVNKLKPL KSCLNIHKAKSQNDWKCSHN QAKKRVVAFADSKGLSLTAIHV FSDLPEQPAWDLQFDLLDLNDI SS\ALKHH\EEKNLILDFF\QPST DYL\SFRSHFQ\NFVCL\ENC SL Q\ERTVTGTV\KVKNVEF*GRKF QIRYHFSDSWEKLTLDVDCVY MENVY/GVGTGSDTFSFAIDLPP VIPTEQKIEFCISYHANGQVFW DNNDGQ\NYWIVHVQWKP DG VQTQMAPQ\DCAFHQTS PKTEL ESTIFGSPRLASGLFPEWQSWG RMENLRLLCDELSNNVTGLDLS YSPMQS
21229	51597	C	21356	204	273	
21230	51598	B	21357	1	1062	
21231	51599	A	21358	1	397	QRPI*PTKPIGQRVSKGHQP\TR H\DF TQF\LA AHETISRLVG FSA GQV\QYLDLIK\DP SKLFNEER LIDKTKVTYLKWLPESESLFLA SHASGHLYLYNVSHPCASAPPQ YSLLKQGEF SVYAAKYNDLF

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21232	51600	A	21359	71	1736	FRTSLKDVWHTPLTPFLPPLKSI DLNKPIDKRIYKGTQPTCHDFN QFTAATETISLLFGSFSRRTWA WCGPAV*AGPCPTAFLGTLRLI DKTKVTYKWLPESESLFLASH ASGHLYLYNVSHPCASAPPQYS LLKQ\AWGFSFYAAKSKAPRNP LAKWAVGEGPLNEFAFSPDGR HLACVSQDGCLR VFHFDSMLL RGLMKS YFGLLCVCWSPDGR YVVTGGEDDLVTVWSFTEGRV VARGHGHKSWVNAVAFDSLY TTRAEEAATAAGADGERSGEE EEEEPEAAGTGSAGGAPLSPLP KAGSITYRFGSAGQDTQFCLW DLTEDVLYPHPLARTRTLPGT PGTTPPAASSSRGGEPGPGPLPR SLSRNSLPHPAGGGKAGPGV AAEPGTPFSIGRFATLTLQERRD RGAEKEHKRYHSLGNISRGGSG GSGSGGEKPSGPVPRSRLDPAK VLGTALCPRIHEVPLLEPLVCK KIAQERLTVLLFLEDCHIITACQE GLICTWPRPGKAFTDEETEAQT GEGSWPRSPSKSVVEGISSQPG
21233	51601	A	21360	2	467	LMQ/NWDAAMEDLTRKETID NNSVSSPLQSLQRTWLIHWSL FVFFNHPKGRDNIIDFLYQPH MLADKLNMTPEEAERWIVNLI RNARLDAKIDSKLGHVVMGNN AVSPYQQVIEKTKSLSFRSQML AMNIEKKLNQNSRSEAPNWT QDSGFY
21234	51602	B	21361	1	909	
21235	51603	A	21362	3	3617	YWKERPTQKVIPRATENHGLKS YLQKTKLSIDEAAFLLPDTNLK SELLELLTHWLQVGVPMTPSLG SINLLGWLTELRETHYICWFIV KETTRDTDEEMCRTEPALACSI SHYCDDGCIQMLNTPETLQCSA KDSKHFIPECSIPGENRPPSDT GKTVKFLSLNIFNLQLAESTDA EQRANCILRCFLTETTLNYQKIL SVRPGTKLATASHVSGLGLQTP PFGLAQHLIRPHAFLAPKDPLTS FTERNRSRG

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21236	51604	A	21363	75	2141	GPRLGLTTMWHEARKLGRRRLR GLLFDSRKRAERRREYYEKIKK DPAQFLQVHGRACKVH\LDSA VALAAESPVNMMPWQGD TNN MIDRFDVRAHL\DHIPDYTPPLA HHHFSQNQESDER\KCN YERYR GLVQNDFAGISEEQCLYQIYIDE LYGGLQRPSEDEKKKLAEKKA SIGYTYEDSTVAEVEKAAEKPE EEESAAEEESNSDEDEVIPDIDV EVDVDELNQE QVADLNKQATT YGMADGDFVRMLRKDKKEAE AIKHAKALEEEKAMYSGRRSR RQRREFREKRLRGRKISPPSYAR RDSPTYDPYKRSPSESSSESRSR SRSPTPGREEKITFITSFGGSDEE AAAAAAAAAASGVTTGKPPAP PQPGGPAPGRNASARRRSSSSSS SSSASRTSSSRSSSRSSSRSGG GYYRSGRHARSRSRWSRSRSR SRRYSRSRSGRRHSGGSRDG HRYSRSPARRGGYGPRRRRSR SHSGDRYRRGGRGLRHHSSSR RSSWSLSPSRSRSLTRSRSHSPSP SQSRSRSRSRQSPSPSPAREKL TRPAASPAVGEKLLKTEPAAG KETGAAKV\PKLTPQEKLLKLRM QKPL\NRQFKADKKAAQRKR*S QAEHERQERKDEA\RAMARKIG MKERER\REKERE EWERQYSRQ SRSPLP/RDYSREYSSSRRSRSR SRSPHYRH
21237	51605	A	21364	1	609	
21238	51606	A	21365	1	1227	
21239	51607	A	21366	1	1626	
21240	51608	A	21367	370	4388	GFIWNRITPTEDGQTRELQNH GLSAPVPRGRKGKKVKTQTSSF DIQKAEWLKYNPEQLLQDEG YKKHIKHHCKNVLLRVRMLYY LKQEVIGNECQKVFDGVDASDI DVWVPEPDHSEVPAEWWD ADKSLIGVFKHGYEKYNTIRA DPALCFLERVGKPDEKAVAAE QRANDYMDGDVEDPEYKPAPA IFKDDIEDDVSSPGDLVIADGDG QLMEGDKVYWPTQSALTTRLR RLITAYQRTNKNRQIQIQ

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21241	51609	A	21368	1	530	AEADAIHQMVREGQRARRQQQ AATSESSQSEASVRREESPM DV DQSPSPAQDTQSIASDGT PQGAE KEKEERPPPELPLLSEQLALDEL WDM LG ECLKELEESH DQH AVL ETHRTVLNQILRQSTTHLADGP FAVLVDYIRVLD F DVKRKYFR QELERLDEGLRKEDMAVHVRR DHVF
21242	51610	A	21369	1	217	
21243	51611	A	21370	274	599	PVSKESRVAPLCDFCLPFIQSES SQSEASVRREESPM DV DQSPS AQDTQSIASDGT PQG E KEKEER PPPEL/LLSEQLSLDELWDM LG E CLKELEESH DQH AVLVLQPA
21244	51612	A	21371	2	731	TPTPPTAPTPVTSAPALVAATAI STIVVAASTTVTPTTATTTVSI SPTTKGSKSPAKVSDGGSSTD FKMVSSGLTENQLQLSVEVLTS HSCSEEGLEDAANVLLQLSRGD SGTRD TVLKLLNGARHLGYT LCKQIGTLLAELREYNLEQQR AQ CETLSPDGLPEEQPQTTLK GKMQRFSGLGSASSIQA AVR QLEAEADAIHQMSESSQSEASVR REESPM DV DQSPSPAQDTQSI A
21245	51613	A	21372	208	423	LYVKPTAPPK*AL*SEGLE*MSP QCLWQGLQQGKAQKKLLEVP NKLTQTIN*PANVLILA*GGSSS YRPPHK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21246	51614	A	21373	1	2002	MPQLPGISLPEGVDPSFLAALPD DIRREVLQNQLGIRPPTRTAPST NSSAPAVVGNPGVTEVSPEFLA ALPPAIQEEVLAQQTAEEQRPE LAQNASSDTLMDPVTLIQTLPS DLRRSVLEDMEDSVLAVMPPDI AAEAQALRREQEARQRQLMHE RLFGHSSTSALSAILRSPAFTSR LSGNRGVQYTRLAVQRRGGTFQ MGGSSSH\NRPSGS\NVDTLRL RGRLLLDHEALSCLLVLLFVDE PKLNTSRLHRVLRNL CYHAQT RHWVIRSLLSILQRSSESEL CIET PKLTTSEEKGKKSSKSCGSSSHE NRPLDLLHKMESKSSNQLSW/L SSVSMDAALGFR\TNIFIQRSG GRKHTEKHASGGSTVHIHPQA APVVCRHVLDTLIQLAKVFPSH FTQQRKTETNCESDRERGNKA CSPCSSQSSSSGICTDFWDLVK LDNMNVSRKGKNSVKSVPVSA GENKVSEAQANS GSGASSTTTA TSTTSTTTTAASTTPTPTAPT VTSAPALVAATAISTIVVAASTT VTTPTTATTTVISISPTTKGSKSP AKVSDGGSSSTDFKMVSSGLTE NQLQLSVEVLTS HSCSEEGLED AANVLLQLSRRPARMLAMHW PSLYNVETEKTLALPNLIALQTS PFASGVIAKSSTDRLINQCAPV WRWR
21247	51615	A	21374	1	6384	MVSPEPKTGHSIRNWLDELKDL PILHAYSNLPSSPAVDLAIHSSK EGRMDWTEGQVTGPVVRSAAT SGAGSTTSGVVSGSLGSREINYI LRVLGPAACRNP DIFTEVANCC IRIALPAPRGSGTGNGSSRIPRES APEMATAESLVEELSEDAAGG ASPGVELPALGCSELPAAEVSP TASSKNLETICEYAYCMAMLPE TGLDPYPKRGFLDTQERIWD IPPSPGNIP TTHPLMVRHADHSS LTLGSGSSTT
21248	51616	A	21375	1	1356	
21249	51617	A	21376	80	608	

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21250	51618	A	21377	298	1374	GRGDWPDILNLTQATASWTPR WCCLRKRPVEAPSGGATEERTLS LTSGLSMPADPCEGGARSCLV TESARGGLQNGQSV DVEETLPS EPENGALLRSERYQGPRRRACS ETLAESRTAVLQQRRAAQLPG GPAAAGEQRASPSKARLKEFLQ QCDREDLVELALPQLAQVVTV YEFLLMKVAESLGITEFLRKKEI HPDNLGPKHLSRDMDGEQLEG ASSVEKREREAEEGLASVKRP RREALSND\TTESLAANSRGRE KPRPLHALAAGTIVSQEEDIVT VTD/GRGACLRMGPLEGVPLEA VESVVTVEPEPSQ*NGVRY*NS SDFIQRRSMASNVYFSNVNIAQ MNLLFIKNNVFL
21251	51619	C	21378	354	530	
21252	51620	A	21379	1	1272	MVLSEKASGSTLRGCTEERTLS LTSGLSMPADPCEGGARSCLV TESARGGLQFLQCDREDLVEL ALPQLAQVVTVYEFLLMKVAE SLGITEFLRKKEIHPDNLGPKHL SRDMDGEQLEGASSEKREREA AEEGLASVKRPRREALSNDTTE SLAANSRGREKPRPLHALAAES HTTTVSGGNGSVFQAGPQLQA LANLEARRGSIGAALSSRDVSG LPVYAQSGEPRRLTQAQVAAFP GENALEHSSAQDTWDSLRSPGF CSPLSSGGGAESLPPGGPGHAE AGHLGKVCDFHLNHQQPSPTS VLPTEVAAPPLEKILSVDSVAV DCAYRTVPKPGPQPGPHGSLLT EGCLRLSLSGDLNRFP CGMEVHS GQRELESVVCLSAETMAF*NFP\A MGA\MSYCL\RD\RSRFLRLPM GLSCPLQVQ
21253	51621	A	21380	90	204	
21254	51622	B	21381	13	423	

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21255	51623	A	21382	1513	2405	RRAQYRRWRRWRRRHREPE KEKRRHSRSHSRRRRTLIF*TQS RSRSRE*LHCQSRSR**FKSPRQ RRSHSRERGRSTARHYRST\KER QQRRSRSGTRSPKKSRCPKRKL SLSPSPGKHKKKKKDKERNRY ERERSTSKKKSKDREKDQERKS ESD TDVKVTRVYDEEEQGYDT SQEIEMHADNPAAIQT VVLQRD DLQNGLLSTCRELSRATAELER AWREYDKLEYDVT VTRNQMQ EQLDHLGEVQCWCYRTEKYV MERGPEQDPKRAFLDFVQERIQ GESAVQSESKEFIKTVKK
21256	51624	A	21384	1	180	
21257	51625	A	21385	3	115	
21258	51626	A	21386	3	312	LPTALLRST MALLHSGRVLPGI AAAFHPGL/AA/AASARASSWW THVEMGPPDPILGVTEAFKRDT NSKKMNLGVGAYRDDNGKPY VLPSVRKFVTVQTISGTGAL
21259	51627	A	21387	3	395	STMALLHSGRVLPGIAAAFHPC\ LAAAASARASSWWTHVEMGPP DPILGVTEAFKRDTNSKKMNLG VGAYRDDNGKPYVLPSVRKAE AQIAAKNLDLLPLLNVVCSLSS HTVSPAAQGGTRKEDILGFACC
21260	51628	A	21388	1	303	
21261	51629	A	21389	2	425	RPE*WKEIATVVKRNLFALFD MAYQGFASGDGDKDAWALHH FIEQGINVCLCQSYAKNMGLYG EHVGAFTVVKDADEAKRVES QLKILISPMYSNSPLNGAQIASTI PNTPVGLKVWVMGGLHDHPQ VMSDEKETTLRA

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21262	51630	A	21390	3	1508	HEAGAGSLCVC PARPLLRPAAA HCPSYRSTMAHACTSGRVLPGI AAA\FHPGLAAAASARASSWW THVEMGPPDPILGVTEAFKRDT NSKKMNLGVGAYRDDNGKAL PCCPSVRKAEGPRLPQKIWDKE YL\PIGG\LAEFCKASAELALGE NNRSLERVGRFVTVQTHFWEL GALRI\GASFL\QRFKFSRDVFL PKPTWGETTHPSFRDAG\MQL\ QGYR\YYDPKTCGFDFTGAVED ISKIPEQSVLL\ LHACG/HNNPTG VDPRPEQWKEIATVVKRNLF AFFDMAYQGFASGDGDKDAW AVRHFIEQGINVCLCQSYAKNM GLYGERVGAFTMVCKDA\DES KRVESQLKILIRPMYSNPPLNG ARIAAILNTPDLRKQWLQEVK GMADRI\GHAGLQLVSNLQGR EG\STH\NWATHSPTKLGMFCF HRG*KLEQVERLIKEFSIYMTK DGRISVAGVTSSNVGYLAHAIH QVTKYVSLVRGNGDNLSVLSSL
21263	51631	A	21391	1	184	
21264	51632	A	21392	70	253	
21265	51633	A	21393	1	351	VMEFYCQSCETAMCRECTEGE HAEHPTVPLKDVVEQHKASLQ VQLDAVNKRWGTLKPPTGCL YLRPGLMASC\QLTNQKASI\VD DIHSTFDELQKTLNVRKSVLLM ELEVNYGLKHK

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21266	51634	A	21394	208	2546	WLHCMQQQRAGSKTAGPPICQ WSRMAS\EGTNIP\SLVVGQ\NDK QFLICSICLERYKNPKVLPCLHT FCERCLQNYIP\AHSLTLSCPVC RQTSILPEKGVAALQNNFFITNL MDVLQ\RTPGSNAEESSILETVT AVAAGKPLSCP\NHDGNVMEF YCQSCETAMCRECTEGEHAEH PTVPLKDVVEQHKASLQVQLD AVNKRWGTLPKPPTGCLYLRP GLMASC\QLTNQKASIVDDIHST FDELQKTLNVRKSVLLMELEV NYGLKHKVLQSQ\LD\LLQGQE SIKSCSNFTAQTLN\HGTETEVLL VKKQMSEKLNELADQDFPLHP RENDQLDFIVETEG\LK\SIHNL GTILTTNAVASETVATGEGLRQ TIIGQPM\SVTITTKDKDGELCKT GNAYLTAELSTPDG\SVADGEIL DNKNGTYEFLYTVQKEGDFTL SLSLYDQHIRGSPFKLVIRSAD VSPPTGVKRRVKSPGSGHV\KQ KAVKRPASMYSTGKRKENPIED DLIFRVG\TKGRNKGFTNLQGV AASTNGKIL\IADSNNQCVQIFSN DGQFKSRFGIRGRSPGQLQRPT GVA\HPSGDIIIADYDNKWVSI FSSDGKFKTKIGSGKLMGPKGV SVDRNGHII\VDNKA\CCVFIFQ PNGKIVTRFGSRGNGDRQFAGP HFAAVNSNNEIIITDFHNHSVKV FNQEGEFMLKFGSNGEGNGQF
21267	51635	A	21395	1	591	
21268	51636	A	21396	3	608	LEGDQRWINTVSQALHLLSTLY GPFPCYIGIGRCAKMAYELWR NLEEEEDGETKGRRPEIGHIFLL DRGKLCPAFLSSFS\PRRHGNME GVVAKLKS*S*GCESQL*GAWV LGPMESIKAALGHAV*KAGSGR TFMVRDLCF\DVDFVTALCSQV VYEGLVDDTFRIKCGKCYGPLH LGKMDGSSALAPATWGRVCGR DPHPE
21269	51637	A	21397	268	402	
21270	51638	A	21398	139	452	

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21271	51639	A	21399	1	2497	MGPVAAPLGLSLPATDGAHSV RGNSVLVPSGLIPKDYRSLKTQ YLQSYGPEHLLTFSNLRAGLL TEQAPGDTLTAVESKVSKLVTD KAAGKITDAFSSLAKRSNFRAIS KKLNLIPRVDGEYDLKVPRDM AYVFGGAYVPLSCRIIEQVLER RSWQGLDEVVRLNCSDFAT DMTKEDKASSESRLILVVFLG GCTFSEISALRFLGREKGYRFIF LTTAVTNSARLMEAMSELP GK KDLFIETDLMSPLDRIANVSLLK QHEVDKLYKVENKPALSSNEQ LCFLVRPRIKNMRYIASLVNAD KLAGRTRKYKVIFSPQKFYACE MVLEEEGIYGDVSCDEWAFSLL PLDVDLLSMELPEFFRDYFLEG DQRWINTVAQALHLLSTLYGPL SQT CYGIGRCAK\MAYEFVEGT WEEEDGRNPRARREGFG\HIF LL\DR\DVDFVDSTLLPKLVYEG LVDDTFRIKCGSVDFGPEVTSS DKSLKVLLNAEDKVFNEIRNEH FSNVFGFLSQKARNLQAQYDR RRGMDIKQMKNFVSQELKGLK QEHY\LLSLHIG\ACESIMKKKT KQDFQE\LIKTEHALLEGFNIRE STSYIEEHIDRQVS\PIESRLMC LLSITENGLIPKDYRSLKTQYLQ SYGPEHLLTFSNLRAG\LLTEQ APGDNLTAVESKVSKLVTDKA AGKITDALS\SLAKRSQFRAISK
21272	51640	A	21400	1	216	
21273	51641	A	21401	2	270	
21274	51642	A	21402	1	600	SGRALHASWAAGGVGAYSGRL RSDALEGESFA\LSF\SSASDAEF DAVVGYLEDIIMDDEFQLLRN FMDKYYLAEFEDTEENKLIYTPV FNEYISLVEKYIEEQ\LLQR\PEF NMAAFHHNITPSVPVCRHHKD EVAW*QYSAMLAPPFTRFSWA F*RNVFGTYRGRKKEGRGL\DL SSGLVVVTSLCKSSSLPASQNNL RH
21275	51643	A	21403	1	297	

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21276	51644	A	21404	1	1419	MGAPLLSPGWGAGAAGRRWW MLLAPLLPALLLVVPAGALVEG LYCGTRDCYEVLGVRSAGKA EIRAYRQLARRYHPDRYRPQP GDEGPGRTPQSAEEAFLLVATA YETLKIVFPELKIVKELTLLMP SRAVWIIWSHKMSGGGAGPEL DIGYVPVLLHMPKRIGSGMDTS RSTTVIPVEIRNKELIALLVKAQ DRQEEETNYKL RPFNGLSYEVG YLVLQDEETRKDYDYMLDHP EEYYSHYHYHYSRRLAPKVDV RVVILVSVCAISVFQFFSWWNS YNKAISYLATVPKYRIQATEIA KQQGLLKKAKAKSKNNKVQR RNS*VEEENIIKNIIKSKIDIKGGY QKPQICDLLLLFQIILAPFHLCSYI VWHCRWIYNFNKIGKEYGEEE RLYIIRKSMKMSKSQFDSLEDH QKETFLKRELWIKENYEVYKQ EQEEELKKKLANDPRWKRYRR WMKNEGPGRLLTFVDD
21277	51645	A	21405	1	1266	
21278	51646	A	21406	1	739	
21279	51647	A	21407	1	428	

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21280	51648	A	21408	99	2338	MPPEVHHGEEEVETFAFQAEIA QLMSLIINTFYSNKEIFLRELISN AS\DALDKIRYESLTDPSKLDSC KELKIDIIPNPQEPYPGLWVDTG IG\MTKADLINNLGTIAKSGTKA FMEALQAGADISMIGQFGDGFY S\ANLVAK\KVVVITKHP\DDEQ YAWESSAGGSFTVRADHGEPIA \RGTQVILHLKEDQTEYLEERR V\QEVVKKH\SQFIGYPITLYLE KEREKEISDDEAEEEEKGEKEEE DKDDEEKPKIEDVGSDEEDDSG KDKKKKTKKIKEKYIDQEELNK TKPIWTRNPDDITQEEYGEFYK SLTNDWEDHLAVKHFSVEGQL EFRALLFIPRRAPFDLFENKKKK NNIKLYVRRVFIMDSCDELVPE\ YLNFIPIGVVDSDELPLNIFRKML QQNK/ILWKVIRKNIVKKCLELF SELAEDKENYKKFYEAFSKNLK LGIHEDSTN\RRRLSELLRYHTS QSG\DEMTSLSEYVS\RMKETQ MSIYYITGESK\EQVANSFVER VRKRGFEVVYMT\EPIDECVQ QLKEFDGKKLV\SVTKEGLELP EDEEEKKKMEESKAKFENLCK LMKEILDKKVEK\VTIS\NRL\VS SPC\CIGHKHLGAGQALIERDHE KPRALRDHPPQGGIMMGKKAP *ESPDPHPHFVETRAGRKADAR QVMIRAVKD/LWWVLLV*NPP LLSSGF\SLEDPQT/HTPNRIYRI
21281	51649	A	21409	1	426	
21282	51650	A	21410	1	1305	
21283	51651	A	21411	446	3180	VAVRLGSASQFPSGARPQLPRP PSWSSSIHSPISTTGLSESTDSDS KSGLRGFSAYNPSSRIKSTTSS NSSDGAVTASNQDTGIPWVLV TGPTPPVNSPVESLQGSASFSSGF STPRGLVKGPTLPPDSNLTSVSD YTWIFVRGPPIPNDLSQVSIQAP PTPSNTPECQYKGLPHQPASP GVWYQDHLYPITFPQCRHKHL LHPITSPQCQGRRLPPPQCLTLR GVQYKNLLHPVILSSCRHKDIL NLITLAE

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21284	51652	A	21412	24	667	MLPWLNCITTGVPWPTPSKRW LRNSKVCDCDKTPSNAFSLLS VPPTTTSPASLAWWSGCARLLD LGSSSLMMSPTMASPACRPWL GQRWRLISGSWAWAIVPVT*VP VPEPSWKNRAG*PGCSSYESPH MRRPTRPSASCLEWAPRASLA MHLMATSFVLLSSARITSEKA PLSGEGIHVKWNWNPSPFPPASPP FPMGSVTTAGPRTWMTLP
21285	51653	A	21413	1	304	RAQVLPARCYPGSTVSPLGFRG LPLPRGGSEIPRCATAATRPHR MPFLFYLFLLQQRPHHWHGG AAVPGFWTSAHPA\CDVTYHGF PSLQALAGPPWQCI
21286	51654	A	21414	1	7629	
21287	51655	A	21415	180	423	
21288	51656	A	21416	17	753	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRPHRMPFLFYLFLLQQRH RPHHWHGGAAVPGFWTSAHPA \CDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGL/RLAAAATRVLI*GGP QGPLHPAWSGHQGG*LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGKL FPEPVGTLCWLGPSSALSGHHHF YDLSRTP
21289	51657	A	21417	17	1087	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRPHRMPFLFYLFLLQQRH RPHHWHGGAAVPGFWTSAHPA \CDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGL/RLAAAATRVLI*GGP QGPLHPAWSGHQGG*LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGKL FPEPVGTLCWLGPSSGWIRCLLK NYRLLPLDLEGLLGNAFDGHQ LLRPLIFCQDHLREGPPIGRGDS QGEELEPQLPSSLSSIPYGFCDH CWTKDVEDDPLVTHPSGSRD GHMTQAWPVKVVSPATVIGH VMQASLLAL

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21290	51658	A	21418	3	1584	TQKNTAVRAHRLWGREKISRK EGAGPTPQESRRIGARSGALMT RKGRGMQEVEELSETGKVVKQ HRVGEALRVVVLVWAGSLG/D RRGLVLGRRGYYGAVPAVEMP ARALLPRRMGHRTLASTPALW ASIPCPRSELRLDLVLPSPQSFR WREQSPAHWSGVLADQVWTL TQTEEQLHCTVYRGDKSQASRP TPDELEAVRKYFQLDVTLAQL YHHWGSVDSHFQEVAQKFQG VRLLRQDPIECLFSFICSSNNNIA RITGMVERLCQAFGPRLIQLDD VTYHGFPQLQALAGPEVEAHLR KLGLGYRARYVSASARAILEEQ GGLAWLQQLRESSYEEAHKAL CILPGVGTKVADCICLMALDKP QAVPVDVHMWHIAQRDYSWH PTTSQAKGSPQTNKELGNFFR SLWGPYAGWAQAGLLGNAFD GHQLLRPLIFCQDHLREGPPIGR GDSQGEELEPQLPSSLSSIPYGF CDHCWTKDVDDPPLVTHPSPG SRDGHMTQAWPVKVVSPLATV IGHVMQASLLAL

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21291	51659	A	21419	837	2785	WTRMLFAVSCNDGECQNSNVI LFCDMCNLA VHQECYGVPIPE GQWLCRRCLQSPSRAVDCALC PNKGGAFKQTDDGRWAHVVC ALWIPEVCFANTVFLEPIDSIEHI PPARWKLTCYICKQRGSGACIQ CHKANCYTAFHVTCAQQAGLY MKMEPVRETGANGTSFSVRKT AYCDIHTPPGSARRLPALSHSE GEEDEDEEEDGKGWSSEKVK KAKAKSRIKMKKARKILAEKR AAAPVVSVP CIPPHRLSKI'NRL TIQRKSQFMQRLHSYWTLKRQ SRNGVPLLRLRLQTHLQSQRNCD QVGRDSEDKNWALKEQLKSW QRLRHDLERARLLVELIRKREK LKRETIVQQIAMEMQLTPFLIL LRKTLEQLQEKDTGNIFSEPVPL SEVPDYLDHIKKPMDFFTMKQ NLEAYRYLNFDDFEEDFNLIVS NCLKYNAKDTIFYRAAVRLRE QGGAVVRQARRQAEKMGIDFE TGMHIPHSLAGDEATHHTEDA AEEERLVLENQKHLPVEEQLK LLLERLDEVNASKQSVGRSRA KMIKKEMTALRRKLAHQRETG RDGPERHGPSSRGSLTPHPAAC DKDGQTD SAAEESSQETSKGL GPNMSSTPAHEVG'GEPQFCSP KRTRRQ/HGPPKRPGRPPKNRES QMTPSHGGSPV'GPP/RAPHHEFP ASAQAG*EPQFCSPKRTRRQLD
21292	51660	A	21420	1	2625	MENKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDITAF LKT VKKNKHKFYPAFIHILARL MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTETFSSLWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFIE NMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKY YTQGDKVL MPLAIQRDSE DKNWALKEQLKSWQRLRHD ERARLLVELIRKREKLKRETIV QQIAMEMQLTPFLILLRK

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21293	51661	A	21421	164	1401	PPKGRGMQEVEELSETGKVVK QHRVGEALRVVVLVWAGSLG/ DRRGLVLGRRGYGAVPAVE MPARALLPRRMGHRRLASTPA LWASIPCPRSELRLDLVPSGQS FRWWREQSPAHWSCVLADQV WTLTQTEQLHCTVYRGDKSQ ASRPTPDELEAVRKYFQLDVT AQLYHHWGSVDSHFQEVAQKF QGVRLLRQDPIECLEFSFICSSNN NIARITGMVERLCQAFGPRLIQL DDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGGLAWLQQLRESSYEEAH KALCILPGVGTKVADCICLMAL DKPQAVPVDVHMWHIAQRDY SWHPTTSQAKGSPSQTNKELGN FFRSLWEPYAGWAQATPPSLQ VLFSADLRQSRHAQEPPAKRRK
21294	51662	A	21422	751	2107	SSEHPRELHRIPISWAMSELKDC PLQFHD\FKSV DHLKVCPRYTA VLARS\EDDGIGIEELDTLQLEL ETLLSSASRR\LRVLEAETQILT D\WQDK\KGDRRFLKLG\RDHAE FGAPPKHGKPKK\QKLE\GKAG HGPGP\CPGRPKSKNLQPK\IQE YEFTDDPIDVPRIPKNDAPNRF WASVEPYCADITSEEVRTLEEL LKPPEDAEHYKIPPLGKHYSQ RWAQEDLLEEQKDGAARAAV ADKKKGLMGPLTELDTKDVDA LLKKSEAQHEQPEDGCPFGALT QRLLQALVEENIISPMEDSPIPD MSGKESGADGASTSPRNQNK FSPHTKSLESRIKEELIA\QALL *AGDLLAKDSEDEVLAELRKR QG\EL\KALSAHNRTKKA\DLLR LAKEEVSQRQ\LRQR\VRRAERE GMDAFRKIHGLPGRKRNSPPK K\EKDQAWKNS*KEREEHP
21295	51663	A	21423	107	331	

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21296	51664	A	21424	387	1071	NNPEWRTLIIYVDKENGEPGTR VVAKDGLKLG\SGPSIKALDG\R SQVS\TPRFGKTFDAPTQPYLKL PRKALG\TVNR\TTEKSVKDPGD PSNKKQPKLFRPKKDGPEEGLL KAKKPLFPGLQD*CPIPEIRKIPF PFNPS*TLRSF*PCPEEHPDCGTF PL*VG\PLMIPLTREREL*KSW FQLGPPFHLWKDGPLPPWGIPIC LQFSFQGISVRTWGV\DLPPVCC DIDI
21297	51665	A	21425	480	1270	RSVKKVGAQRPGSGGGWGGN EGWVPQATAPGWAYTHVLFY LFVTPISAAALRADGFGDNPFY HCLVAEILPAPGKLLGKSTWPL EVHLSSRPQRSPhRLPEALLPFS LSQG/HCVVGYGIYYFIYSTWK GRTIYLEDIYVMPEY/RGYWAE AEAGVGAKHPTDPTVIPCPQSP AGVIF*SPSAQTIAIFCLFLSTTG QGIGSKIHKVAEVALDKGCSQ FRLAVLDWNQRAMDLYKALG AQDLTEAEGWHFFCFQGEATR KLAGK
21298	51666	A	21426	182	797	LPFARPWDFGPRQRGSGWLPC GSREAKEGDCGDIL\RLIRVKTA GPELAEFEKLFGSGERSVEEAL ESRLAFGDNPFYHLFW*AEILP APGESYWG/HCVVGYGIYYFIY STWKGRTIYLEDIYVIAGNIGV QGIGSQK*SKKV\AEVALGIRGC SPNFRLARPLD\WNPEGPWDLY KAPRSPKI*RKLEGWHFFCFQG EATRKLAKG
21299	51667	A	21427	224	490	QAGFISARNITWR*ANRRSTWR SYRRKSGRTANCPPIPPACSRC SAPIFIPKNGWWRAMVAPLKW PSTGAFNRLFVPLLTWWRSPDR
21300	51668	A	21428	301	773	HGPGTQQRPRSIWRMPQ*ARPG GRSLAVGGGPRPRAAGGFP*VA SRARRCQRAHGCHCAFSPPLSP ALLSQDAGLCQSRPLLGGQRR LSQEVWSGLGNVHFCQPPEDA ATTPSCPEALTAQQQQASVCDR VSHRFSTWSMVRCSDRTEGQR LQTLGD
21301	51669	B	21429	1	1380	

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21302	51670	A	21430	1	1660	AGVLASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRYGLIG LNGIGKSMLLSAIGKREVPPEH IDIYHLTREMPSPDKTPLHCVM EVDTERAMLEKEAERLAHEDA ECEKLMELYERLEELDADKAE MRASRILHGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLLLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHNNKKLYYTGNVDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGSALKAR QAQSKEKTLQKMMASGLTERV VSDKTLSFYFPPCGKIPPPVIMV QNVSFKYTKDGPCIYNNLEFGI DLDTTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKSHSVKIG RYHQHLQEQLDLDSPLYMM KCYPEIKEEEMRKINGRYGLT GAKQQVSPINLSDGQKCRVCL AWLAWQNPMLFLDEPTNHL DIETIDALADAINFEGGMMLV SHDFRLIQQVAQEIWVCEKQTI TKWPGDILAYKEHLKSKLVDA

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21303	51671	A	21431	78	2022	NNSNLPLWVIIMPSDLAKKKAA KKKEAAKARQRPRKGHEENG VVTEPQVAEKNEANGRE/TTRE VDLLTKELEDFEMKKAARAV TGVLASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRYGLIG LNGIGIGKSMLLFAIGKREVP EHIDIYHLTREMPSPDKTPLHCV MEVDTERAMLENEAERLAHED AECEKLMELYERLEELDAD*AE MRASRMLHGLGFTPAMQRKKL KDFS GGWRMRVALARALFIRPF MLLLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHNNKKLYYTGN YDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGS AKLAR QAQSKEKTLQKMMASGLTERV VSDKTL SFYFP CGKIPPPVIMV QNV SFKYTKDGP CIYNNLEFGI DL DTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHS HVKIG RYHQHLQEQLDL DSPLEYMM KCYPEIKEKEEMRKIIIGRYGLT GKQQVSPIRNLS DGQKCRVCLA WLA WQNPHMLFLDEPTNHLDI ETIDALADAIN EFEGMMLVSH DFRLIQQVAQEIWVCEKQTITK WPGDILAYKEHLKSKLVDEEPQ LTKRTHNVCTLT LASLPRP
21304	51672	A	21432	313	599	
21305	51673	A	21433	737	1006	DNPVVFVFGSVYMLDYVY*FS YVEPPLHPWDEAHLIMVDKLF DVLLDSVCQYFIEDFCINVNQG YWSKILFFCCISARLWYQDDAG
21306	51674	A	21434	1108	1260	GVNFNLSCFLWAFSAJHFPLH TALNV SQRFWYVVSLSLVSK NIFISAF
21307	51675	A	21435	804	917	
21308	51676	A	21436	158	298	
21309	51677	A	21437	1	1068	
21310	51678	A	21438	1	1188	
21311	51679	A	21439	122	352	
21312	51680	A	21440	647	662	ICGVISEGSLVLFH*SISLFWYQY H AVLVT/DSL VV*FEVT*HDASS FVLLA*DRRPEGSSPKSP
21313	51681	B	21441	53	692	
21314	51682	B	21442	1	925	
21315	51683	A	21443	606	900	

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21316	51684	A	21444	33	852	CWKFWARAN*AGGITLPDFKL YYKATVTKTAWKFHFTMFGV DLKETCTAPSLWKDLALNTVE LVCKLCVRQVEGARQIFQLNCT VSE
21317	51685	A	21445	3	795	
21318	51686	A	21446	475	1023	CWFSAGDGGGLPGPDYQGDFAA HPAGAGALYKCRDLINDNILRT VSCQSHDDGDIRGMAFARQ*Q RPVQIDHNMARRG**AATFQPI NKTFSGIHWPHGMRTGGTNPN FENIECTNHIHTLGLPFSEVERN DCDGFNFQLHIFRQTRDLHTAP GRIGRLMLIEELLIDFVDGGKII QIGDKHGH
21319	51687	A	21447	1637	2020	PSSEFTGGPARGFPERARAQL TGRTPGQRTQLDNDLLTKSTP WRGVMGPTLLPGLLAGPFQPL GHTGPFYPPQGFWRQKTHWVRL AQAHWQF*LGQFRGPKTADGG GSKGPGLSASHGAKHHVITYV
21320	51688	A	21448	1051	1185	
21321	51689	A	21449	1290	2025	
21322	51690	B	21450	1	1410	
21323	51691	A	21451	3269	3678	SLSIRLATAPCWLRYPASSRRFQ PTRSAGSVTDSSVTASASSPG*R *NASP\CRERSHRSSRGQARRSL HLWDRSDR*TLPCDHGRCCCHA NDQQVGFAGNYSTAGQT*RWT GFTAGHAGRDINKSADKLPAT AGKR
21324	51692	B	21452	2655	2825	
21325	51693	A	21453	1	896	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNHSTTWKLN NLLSDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEETHSKASRRQE ITKIRAELEIETQKTLOKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITTDPTTEYK LPSENTTNTSTQIN*KI*KKWIN SSTHTLSQD

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21326	51694	A	21454	23	559	TPGLRQSSLSPSAFASQNAGVS GIGGFLVSLTSRMKPWTLAMFR CVWSFFLLVGSWSCWLQE*SC RPSQ*VSQFL/NSSASGVVCCSC LELFVPPGGFVVSLASRVKLQT FTVSVTAHKGGVDPKSEQQQD LVQKAKEHSFCSVEADLSGLPL LAGAACFYSLMEPHPHPADWSI LQRAD
21327	51695	A	21455	26	323	
21328	51696	A	21456	221	734	
21329	51697	A	21457	293	2103	PCHSALSSPLPHRDCIALCFLNS GTSFVAGFAIFSILG\FMF\QEQG VPISVAESGPGLAFAIYPRVV MLPFSPLWACCCFFMVLLGL DSQFVCVESLVTALVDMYPHV FRKKNRREVLILGVSVISFLVGL IMLTEGGMYVFQLFDYYAASG MCLLFVAIFESLCVAWVYGAK RFYDNIEDMIGYRPWPLIKYCW LFLTPAVCTATFLFSLIKYTPLT YNKKYTYPWWGDALGWLLAL SSMVCIPAWSLYRLGTLKGPR EVIIPVSIRMTKVAGTAGLSGN VGPRCDLSRIEELPDGGTRCGM DSRVSGTTSNGETKPVYPVME KKEEDGTLERGHWNKMEFVL SVAGEIIGLGNVWRFPYLCYKN GGVVGFYNSIKNIPILQRVILFV RIHNMLNKGQGVLA KCDAAK KIEEKEADAGSASVPGDVMRT KKLSFEGAWHPCLLVGLKLS ALELRGGFISARIAGPRAAESDS VGLERELRVCIANKLPGADAA GPGTTFWKHCSMPITDGADAV EGRNTQEAFFRQLNPEAAFLHF MEMVDTNALHVHGIHTRKNHP GQKEAAHSQHGTFPiRWTLNLL KRTFQKGNRAEPNSPAM
21330	51698	A	21458	1	419	MKLRTLAVSATALKVARLEFV PFDVRMCSEFLSSGVKLQTFV SVTALNALRLELFVPPGGLMVS LASGVKLQIFTVSVTAHKSSVD PKTLG/CVDGTGRRGAGGGAH RGGLGRTGAHGGGGRLRHGGL QVSSPAPRKGS

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21331	51699	A	21459	24	1639	GGMDSRVSGTTSNGETKPVYP VMEKKEEDGTLERGHWNKMM EFVLSVAGEIIGLGNVWRFPYL CYKNGGGGAFFIPYLVFLFTCGIP VFLLETALGQYTSQGGVTAWR KICPIFEGIGYASQMIVILLNVY YIIVLAWALFYLFSSFTIDLPWG GCYHEWNTGNWVDVVE/HGG* GEWCGNGSNTPHVCR/VTGWT W*SRWLKGMVWEWQHPTCV QGTGWTW*STWLKG/PGNRVD VVEHVAEGNGVGMPTHTPCA GNRVDVVEQVAEGNEHCMEF QKTNGSLNGTSENATSPVIEFW DSPPGPQFVCVECLVTASIDMF PRQLRKSGRRELLILTIAVMCY LIGLFLVTEGGMYIFQLFDYYA SSGICLLFLSLFEVVCISWVYGA DRFYDNIEDMIGYRPWPLVKIS WLFLTPGLCLATFLFSLSKYTPL KYNNAVYVYPPWGY\SIGWFLA LSSMVCVPLFVVITLLKTRGPFR KVGGVGESDLLKEGTERGWT WGRTHNWGQGADTNSECGAA LQSHRILTRRTLKTSPVAFQKCS
21332	51700	A	21460	1358	4787	RRCYCGIWSRYLLKRLWKWIS GEGWAEKDSARRRGICTFWLE FE/VTCLSWNSLF/YAHINVDISG MKVPWLYVGMCFSSFCWHIED HWSYSINYLHWGEPKTWYGV SHAAEQLEEVRELAPELFESQ PDLLHQLVTIMNPNVLMHEGV PVYRTNQCAGEFVVTFPAYHS GFNQGYNFAEAVNFCTADWLP IGRQCVNHYYRLRRHCVFSHEE LIFKMAADPECLDVGLAAMVC KELTLMTEETRLRESVV
21333	51701	A	21461	1	5773	MEEKPLKVKGKDSSEKKRKRK LEKVEQLFGGKQKSKELKKM DKPRKKKLLKLGADKSKELNKL AKKLAKEEERKKKKEKAAAAK VELVKESTEKKREKKVLDIPSK YDWSGAEESDDENAVCAAQN CQRPKDKVDWVQCDGGCDE WFHQVCVGVSPEMAENEDYICI NCAKKQGPVSPGSHKAVITVV VKAVSYLKFEESTSELMWLL AAFSSFWVVGKALDFVWPLA REEKEIGDNKDLERNKIGVNM

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21334	51702	A	21462	85	1333	STSRALSGAQRFGRLIDHGARV PALLLLLLPL\VHVSATTPEPR\E LDDEDFRCVCNFSEPQPDWSEA FQCVSA\VEVEIHAG\GLNL\EPF LK\RVDADADPRQY\DTVKGF PR\VERRASQVGAAQVPA\QLLV GALR\VLA\YSRFKELTLEDLKI TG\TMPPLPLEATGLALS\SLRLR NVSWATGRSWL\AEL\QQWLK PG\LKVLSIAQAHSPAFSCEQVR CFPGPSPA*DLSDNPGTGANAE LMAALCPHKFPA\IQNL\ALRNT GNRRPQGVCAALAAAGVQPH SLDVSHNSLRANRNP\AP\RCM \WSNA\LNSPQICRFAGAGTGVP KGPAPAKL\RVLRSSACNRL\NR A\QPWTSLE\VDNLGQLDGNP FPGSPGTGPSPTGSMN\SGVVP SLCNVRTCRVGVSGTLVLLQG ARGFA
21335	51703	A	21463	1640	5804	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGEWETYKHS SKLIDRVYKGIPMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEHHHIDLDVRTTLRNHV FFRDYGAQKQRELFYILLAYSE YNPEVGYCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQGLQD
21336	51704	A	21464	1	960	
21337	51705	A	21465	1	1317	
21338	51706	A	21466	1	3393	
21339	51707	A	21467	2745	6141	QGSKGTCHPQAQQPWDEGVW QEAPSQSEPWGQSQEPTMPQR LPHARQHTPLPLGSADYRRVVS VRPQGPHRDPKDSRDAAKREQ GSLAPRPVPASRGGKTLCKGYR QAPPGPPAQFQRPICASPPWAS RFSTPCPGGAVREDTYPVGTQG VPSLALAQGGPQGSWRFLEWK SMPRLPTDLDIGGPWFPHYDFE RSCWVRAISQEDQLATCWQAE HCGEVHNDMSWPEEMSFTAN SSKIDRQKVPTEKGATGL
21340	51708	A	21468	65	320	
21341	51709	A	21469	3	505	

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21342	51710	A	21470	2	1756	CRCHSELSSGSSL*/CCTRGIGGAI GAVGFRSQAASLAGQPDGNG VCVHAGNSRIFVPLPVGLEVKG FSHSAFTFGIESHISQSNINGTLV PPSALISILQKGLQYVEAEISINK DGTVFDSRPIESLSLIVAVIPDV VQMRQAFGEKLTQQQASAA ATEASAMAKAATMTPAAISQQ NPPKNREATVNGEENGAHEINN HSKPMEIDGDVEIPPNKATVLR GHESEVFICAWNPNVSDLLASGS GDSTARIWNLNENSNGGSTQL VLRHCIREGGHDVPSNKDVTSL DWNSDGTLLAMGSYDGFARIW TENAPALDWDWQNNMTFASCS TDMCIHVCRLGCDHPVKTFQG HTFCTCIESICFWGGLRKLTTM TEGKRLRPKTFCSDDGALLPPA GRRPHLLTGPDIFFKRLSALFQN EVNAIKWDPSGMLLASCSDDM TLKIWSMKQDACVHDLQAHSK EIYTIKWSPTGPATSNPNSSIML ASASFDSTVRLWDVEQGVCTH TLMKHQEPVYSVAFSPDGKYL ASGSFDKYVHIWNTQSGSLVHS YQGTGGIFEVCWNARGDKVGA SASDGS\VCILWQLSGKQ
21343	51711	A	21471	1	1647	
21344	51712	B	21472	4	267	
21345	51713	A	21473	1	1824	
21346	51714	A	21474	33	543	TFEGANNFVGDPIVLPCNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVGRKRDSRN D\YCCFA\AFPRIKGLLYRKMPM /RNLTVNSSNSIKAKENPKLLLA SPLRSGSESSITILKGEILLLECF AEGLPTPQVDWNKIGGDLPKG REAKENYGKTLKIENVY
21347	51715	A	21475	197	516	TYLAAGRTPTLDPWNQERCTM PSGSIWILETHSSFGWVTVAH LSSDPKGCQF*VGSRIGEGSATD PAFCASCSATWTIRPSRNGA*G VNG**VCWLEPLAGPHR

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21348	51716	A	21476	1	1766	MNVALTHIDTHHAEFEMALQA ALVWNTLRTAGGKKS VHLSA LLVHEIIDGANLTISNVTLEDQ GIYCCSAHTALDSAADITQVTV LDVPDPDENLHLSEQRNRSVRL TWEAGADHNSNISEYIVEFEGN KEEPGRWEELTRVQGKKTIVIL PLAPFVRYQFRVIANEVGRSQ PSQPSDHHETPPAAPDRNPQNIR VQASQPKEMIHKWEPLKSMEQN GP\GLEVRVTWKPQGAPVEWE EETVTNHTLRVMTPAVYAPYD VKVQAINQLGSGPDPQSVTLYS GEDLPEQPTFLKVIKVDKDTAT LSWGLPKKLNGNLTGYLLQYQ IINDTYEIGELNDINITPSKPSW HLSNLNATTKYKFYLRACSTQ GCGKPIEESSTLGEGSVSLEKC ENKLIRNIGTKKQGTAIRIPENV EAALELRKQKLEECGGFRRE NANEQQGVTEEFKQNEKLRF LLLKIVILAVAREMTWNGEGR DLSEPSLTVVFADLSSPAYSLHT TMAQEPGPGFLFLSLSTIPWISSI PMIHASVQVSWIPLLRLNSLMVH IHSSLEQRNLKVHISKEQKKLNS VDSDLTDNPPTHTVN
21349	51717	A	21477	1	1440	
21350	51718	A	21478	266	3974	RAMEPLLLGRGLIVYLMFLLLK FSKAIEIPSSVQVPTIHKQSKVQ VAFPFDEYFQIECEAKGNPEPTF SWTKDGNPFYFTDHRIPSNNNS GTFRIPNEGHISHFQGKYRCFAS NKLGIAMSEEIEFIVPSVPKFPK EKIDPLEVEEGDPIVLPCNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVEEKDSRND YCCFAAFPRRLRTIVQKMPMKLT VNSLKHANDSSSTEIGSKANSI KQRKPKL

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21351	51719	A	21479	1	2421	QAGAMASGSVAECLQQETTCTP VCLQYFAEPMMLDCGHNICCA CLARCWGTAETNVSCPQCRETF PQRHMRPNRHLANVTQLVKQL RTERPSGPGGEMGVCEKHREPL KLYCEEDQMPICVVCDSREHR GHSVLPLEEAVEGFKEQIQNQL DHLKRVTRLKFTDFLAQGEQA RAELLSLTHMEREKIVWEFEQL YHSLKEHEYRLRLARLEELDLAI YNSINGAITQFSCNISHLSSLIAQ LEEKHQQPTRELLQDIGDTLSK AERI\RIPEPWITPPDLQEKIHIFA PKCLFLTESLKQFTEKMQSDME KIQELREAQLYSGGSIVGGHEP GEPRGIKAGYGTNCNCFPEEEKC FCEPEDIQDPLCDELCRTVIAAA VLFSFVVSVLLSAFCIHCHYHKF AHKPPISSAEMTFRRPAQAFPVS YSSSGARRPSLDSMENQVSVD FKILEDPKWEFPRKNLVLGKTL GEGEFGKVVKATAFHLKGRAG YTTVAVKMLKENASPSELRLDL LSEFNVLKQVNHPHVIKLYGAC SQDGPLLLIVEYAKYGSLRGFL RESRKVGPYLGSGGSRNSSL DHPDERALTMGDLISFAWQISQ GMQYLAEMKLVRDLAARNIL VAEGRKMKISDFGLSRDVYEE DPYVKRSQGRIPVKWMAIESLF DHIYTTQSDVWSFGVLLWEIVT LGGNPYPGIPPERLFNLLKTGH

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21352	51720	A	21480	79	2253	PSATLSCPTSVAASLGEPVFP SLRGHRRRHRPGHSPSVRGRV WDTPGGGAALRPPGASQEQR GESAGELGSVQSSAPGMPVVR RRPGAMASGSVAECLQQUETC PVCLQYFAEPMMLDCGHNICC ACLARC\WGTEET\NVS\CPQCR E\TFPQRHMRPNRHLANVTQLV KQLRTERP\SGPGGEMG\VCEK HREPLKLYCEEDQMPICVVCDR SREHRGHSVLPLEEAVEGFKEQ IQNQLDHLKRVKDLKRRRAQ GEQARAELLSL\TQMERKIVW EAFEQLYHSLKEHEYRLARLEE LDLAIYNSINGAITQFSCNISHLS SLIAQLEEKQQQTARELLQDIG DTLSRAERIRIPEPWITPPDLQE KIHIF\AQK\CLFLTESLKQFTEK MQSDMEKIQELREAQLYSVDV TLDPTAYPSLILSDNLRQVRY SYLQQDLDPNPERFNL\FPCVLG SP\CFIAGETIIWEGRGWGDKAK WTIG\VC*RLSCQEKGGVTSAP QNGFW\AVSLWYGK\EYWALT SPMTALPLRTPFQ\RVGIFL\DYD A\GEVSF\YN\VTERC/HTPFTFSS CLPFGGLVRPLLSSLSYSGREK VQLPLINLPP*SGIDGGFLAHVG \NHGSFPWKTFPFEGRVNSGPK GLLAVILRPGTRHLVCLANVLS KLGILNHVPRPCSGRHGCPCLP SFFLPMQIVKCNEMYQDILEIKT
21353	51721	A	21481	1	1068	

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21354	51722	A	21482	955	2548	MSLCGARANAKMMAAYNGGT SAAAAGHHHHHHHHLPHLPPP HLHHHHHPQHHLHPGSAAAVH PVQQHTSSAAAAAAAAAAAAA MLNPGQQQPYPSPAPGQAPGP AAAAPAQVQAAAAATVKAHH HQSHHPQQQLDIEPDRPIGYG AFGVVWSVTDPRDGKRVALKK MPNVFQNLVSCKRVFRELKML CFFKHDNVLSALDIL*PPHIDYF EEIYVVTLMQSDLHKIIVSPQP LSSDHVKVFLYQILRGLAKYLHF RLGILHARDIKPGNLLVNSNCVL KICDFGLARVEELDESRHMTQE VVTQYYRAPEILMGSRHYSNAI DIWSVGCIFAELLGRRILFQAQS PIQQLDLITDLLGTPSLEAMRTA CEGAHAHLRGPHKQPSLPVLY TLSSQAT\H*TGHLLFAECGFDP SKRISAKDALSHPYLDEGRRLRY HTCMCKCCLSPS\TGRVNT\SDL EPVT\NPKFDDTFEKNLSPVRQV KEIIHQFILEQ\QKGNRV\PLWIN PQSAVFKSFISSTVAQPSEMP\S PLVWE
21355	51723	A	21483	119	692	SYKSRLARKS\TGGKAPRKQLA YKKPASQECGPLTGGVKKPHR YR\PGTVAAP*NLDGYQKSTE\L MIRK\LRFQR\LVREIAQ\DF\KT DLRFQSAVIRWLCRMAS\EAYL VWPFLKDTNLVCLSMKRVTIY AKKTFQLSTPASRGERALRIHS WMGKHFILKKKKKKFLFFLL VVLNVRYFFFHGVKRYLSI
21356	51724	A	21484	2	363	RFTKVEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL

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21357	51725	A	21485	1	1468	MRNLRNIQKAKATINLGISFDE GLKGF MWSRIE AAPLPNTRWC LPHGYSGPANS GGCCYYITTGMS CWLS DLYPRHDGVHVG LQ GK DLEHDIPVDL GSRPTSVDPV SRS APGPQGP KAPVDSGSR TTPANP GAGPSPVDPSSRPAPVASGFRLI MIDQNTKLIPVPGWPLRLRLKI YLSSRSASLDGSRFAPVD TNFI PVPTDRGHSHAPEDPVDRLTSV DPTKEKNWMENEFDKL TEVGF RRSVITNFSELKEHVLTHRKEA KNLEKRLDEWLSRITCAEKS LN DLMELKTTVRELREAYTSFMS QFDQAEERISVIEDQINEIKLKSL QAQEDARHRNTDQRSS ENRRS EPWSLEERKREQWNSLKQNAD QQDTEAMSDYK/R/YSSET*RRR *LFCLLRKVHSKEGP*KKDQRE TRNQKGLGFLRDRPQWVSGKM KQECLQLGTPWP*IIIGQWQYFP RDGMGVRTDFCRIFQRLARMR LCEGCLMNS

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21358	51726	A	21486	1	2589	MSPVTLWVRTSSRGEDRCGMC TPGRDTGFAPISGMCSKYRSCIT NEDTGLGLAFTMPMSLDTKHIP NFGKVHGYIMRHHKNEDTIPW RRNTKKEEARGTQPLEADDQN PGWEDGKPGSLENEGRRSHRG NPAPDMPQPPKEDLFILPDEYK SCLRHKRSLLRSHRNEELNVET LVVVDKMMQNHGHENITTY VLTILNMERILKKTSTIIHPSA MERCPLNLQIRDSLWNHCFSL ATTVHRFHPVGRHALKKMYKL PSAYINVSITKYTQRFALTYISC VFHRNAAFVAVPGEGRCCAGV DVPAPMSLRSPGPHWPQEHGA LWISCTVRGMASCLGQLCRVS MRVRANIGKVQKPRLRISNGK GLHTQSELSGSAYLEKGWRGA APGLDSRNEKGTGARDSGTPG RQSQTLQRGPPGPVPGSSKIAPQ TLTRQGSMTASRKLVLLEPFC ERTGEQSGQLYPPSPLLVEWV MPAGTSSTVDPLLPELCRRWER QALSLCRLYRQRTSVSIKALCD HTETRSVALSTCQGLECNSSPA RKQNWMEFEELTEVGFRKS VITKFSKLKEHILTHRKEAKNLE KRLDEWLTRITSVEKSLNDLME LKTTVRK\LHEAYTSFNRFQDQ VEERILVIEHQINEIKQEDKVRE KRVKRNEQSLQEIWDCVKRPN LCLIGVPESDGENGTKLENTLQ
21359	51727	A	21487	260	1292	RLCAFNRMTFQNFNFTIEDHLE NELTPIRDGALTLDSSKELSVSE SQKGEERDRKCSAEQFDLPQD HLWEHKSMENAAPSQDTSPL SAASSRNLEPHGKQPSLRAAK EHAMPKDLKKMLENKVIETLP GFQHVKLSVVKITILLKENFPGE NIVSKSFSSHDLITGVYEGGLK IWECTFDLLAYFTKAKVKFAG KKVLDLGCGSGLLGITAFKGG KEIHFQDYNMVIDEVTLPNV VANSTLEDEENDVNEPDVKRC RKPKVTQLYKCRFFSGEWSEFC KLVLSSSEKLFVKYDLILTSETIY NPDYYSNLHQTFRLRLSKNGRV LLASKAHVQRNSLSRL

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21360	51728	A	21488	263	1466	RLCAFNKRMTFQFNFTIEDHLAE NELTPIRDGVALTL\SSKELASVS ESQKGRKE\RDRKCSAEQF\DL P QDHLWGNISSMGKWQAPS\QG HRTSSTSVAASSSRNL\EPHGKT ALLAGAGQRSMAMPKRF*RRC LEN*SPLET\LPGFQHVKLSVVK TILLKENFPGENIVSKSFSSHSDL ITGVYEGGLKIWECTFDLLAYF TKAKVKFAGKKVLDLGCGL LGITAFKGASKEIHF\QDYNM IDEVTLPNVVA\NS\TLEDGGKM DVKWSPDVEKMPGNPKVTQL YKC\RFFS\GEWS*VL*ALYLSSE K\LFVKYDPHSSPSETIYNP\DY YSNL\HQTFLRLLSKNG\RVLLA SKAHYFGVGGGVHLFQKFVEE RDVFKTRILKIIDEGLKRFIIEITF
21361	51729	A	21489	2	367	
21362	51730	A	21490	2	376	QTYSLRRATPRHIIVGFTK VEM KEKVLRAA/NKPIRLTVDL SAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSF TDKQML KDFVTTTRPALQELLKEALNME RNNQYQPLQKHAKW
21363	51731	A	21491	1	690	
21364	51732	A	21492	1	714	
21365	51733	A	21493	1	1536	
21366	51734	A	21494	1	765	
21367	51735	A	21495	1	972	
21368	51736	A	21496	1	2670	
21369	51737	A	21497	2	1178	
21370	51738	A	21498	2	827	
21371	51739	A	21499	1	777	
21372	51740	A	21500	168	1057	IRLKNHDH GELRNKTICINRNL AEIKKFSENYENKETMYLNLW DVAKAVLRGQFIALNARIKKLE KSQVYNLISQLKELENQEQTNP KASRRQEITKIRAE LKEVETWK TLKKINESGRGVDCSS/DASNGT KPDGE*L**VDKSR/PSEARQAN IHQEIHGTPQR*SLRRATPRH/II VRFTK VEMKEKMLRAARKKG WVTHKGKPIRLTADLLAETLQ ARREWGP IFNILKEKNFQLRISY PAKLSFIREGEIKAFTEKQILRDF VTTRPALQELLKEALNMERND RYQPLQKHAKL

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21373	51741	A	21501	3	1263	GRTIQTKGKEV\ENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERSAM EDEMNEKQEGKFREKRIKRN EQSLQEIWDYVKRPNRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTPQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPINFIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
21374	51742	B	21502	1	2356	
21375	51743	A	21503	2	484	
21376	51744	A	21504	2	902	ASFFSKKTSFGGWWAGGPGD PGMGNHGGFRGGFSRGIRGWG HSRGQGPQGGRGAHRGKTKDK EWT SIPKLGH LVKDMKIKFLEEI YLFFLAIKEFEIIDFFLGASLKDE VLKIMPVQKQTHASQRTRLKG FIVIGDYNH/VGLGVKCSKEV A/TAIRGAILG*LSIVPMCRGY WGSKIGKPHTVPCKVTGHCGS VLVHFIPAPRGTGIVSVPM/PP/KK LLLMAGIYDCY/ARSCTATLGN FTKATFDAISKTSYPTPNLWK ETVFTKSP/YEFRNSGQEFTDYL VKT/HIRVSVQRTQAPAVATT
21377	51745	A	21505	2	407	STISCGGNFPIRGGSGVASLER AESSTEPAKAIKPIDRKS VHQI CSGPVPSLSTAVKELVENS LD AGATNIDLKLDYGVDLIEVSG NGCGVEEENFEGLTLKHHTSKI QEFADL\LSDVTISTCHVSAKVG
21378	51746	A	21506	362	490	
21379	51747	A	21507	3009	3889	
21380	51748	A	21508	1	504	LDDLHKWFLSSFLTAISIGIKF LLKIHISRGSGVLLQLLPGNPSP AAHGTEELEPKFLEQGYLRAVL PGPRVHATA*LEPTVTDQGYAR AGLPIQEVEDVLFGLVLLVLLHV IGQVAEDRNQVAAQGHHQES/C PAQCWGDCTHLEIAGWRGIRRS DANPRSQRKGFG

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21381	51749	A	21509	2	1101	WTERRLGSVRGDRLRERSRPA VNRTPRMSRVPSGAPRGTPSR WMMKCDWHQPLG*IPAPHV GPLAG/IRKKEWSDESEEEPEKE LAPEPEETWVVEMLCGLKMKL KQQRVSPILPEHHKDFNSQLAP GVDPSPPHRSFCWKRKREWW ESESLEEEPRKVLAPPEEIVV AEMLCGLKMKLKRRRVSLVLP EHHEAFNRLLDPVIKRFLAW KDLRVSDKYLLAMVIAFYFSRA GLPSWQYQRIHFFLALYLAND MEEDDEDPKQNIIFYFLYGKTRS RIPLVRNRRFQLCRCLNPRARK NRSQIALFQKLRFQFFCSMSGR AWSREELEENTGPRGDVDFQ QELYSNANGRQQRGEEPFVQI
21382	51750	A	21510	3	918	
21383	51751	A	21511	1	792	
21384	51752	A	21512	3007	3885	
21385	51753	A	21513	615	845	GHTASPPPRSPQAQGRAPSVAP PPTTPQICPTTPSSFSSKRTYAG GWDLPQGQADC*SPCGAQGG WVTLAVASASS
21386	51754	A	21514	357	562	GSSTCGRETERVVLLKKRKSPT HFQYRNSPTAEARPQLE\PTQW GRRSHSPRPSAPLPCSCPQKSRK SV
21387	51755	A	21515	1	1335	
21388	51756	A	21516	537	1164	SSTEPAKAIKPIDRKSVHQICSG PVVLSLSTAVKELVENS LDAGA TNIDLKLDYGVDLIEVSDNGC GVEEENFEGLISF\TLKHHTCKI QEFADLTEVETFGFQGEALSSL CALSDVTISTCHASVKVGTSLV FDHDGKIIQETPYPHPRGTTVS VKQLFSTLPVRHKEFQRNIKK\R ACFPFAFCRDCQFPEASPAMLP VQPAELMAV
21389	51757	A	21517	224	903	GFTWYIGMAQPKQERVARARH QRSETARHQRSETAKPTLGNR QTPTLGNRQTPRLGIHARPRR ATTSLTLLRAFGKKTQS/STEP AKAIKPIDRKSVHQICSGPVVLS LSTAVKKIVGNSLDAGATNIDL KLKDYGMDLIEVSGNGCGVEE ENFEGLSWDSTGVFDHDGKIIQ KTPYPHPRGTTVSVKQLFSTLP VRHKEFQRNIKKPVGEKYMRS VDTQACSCI

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21390	51758	A	21518	2	1321	VKSRAALLGPGA/LSPLEVSRRR PWTERRLGSVRGDRLRERSRPA VNRTPRMSRVPSGAPRGTPSRR WMMKCDWHQPLG*IPAPHV GPLAG/IRKREWSDESEEEPEKE LAPEPEETWVVEMLCGLKMKL KQQRVSSILPEHHKDFNSQLAP GVNPSPPHRSFCWKRKMEWW DQSEESLEEEPRKVLAPPEEIW VAEMLCGLKMKLKRRRVSLVL PEHHEAFNRLLDPVIKRLAW DKDLRVSDKYLLAMVIAFYFSR AGFPSWQYQRIHFFLALYLAND MEEDDEDSKQNIFFLYRKNRS RIPLLRKRWFLGHSMNPRARK NRSRIPLLRKRRFQLYRSTNPRA RKNRSRIPLLCRRFQLYRSMN SRARKNRSQIVLFQKRRFHFFCS MSCRAWVSPEELEENTGPRGD VDFQQELYSNANGRHQAGGEE

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21391	51759	A	21519	1	2654	RSACGSPAWNFPSPRGSGVAS ME\RAESSSTEPAKAIKPIDQKS VHQICSGQVVLSLSTAVKELVE NSLDAGATNIDLKLDYGVDLI EVSDNGCGVEEENFEGTLKH HTSKIHEFADLTQVETFGFRGE ALSSLCALSDVTIFTCHASAKV GTRLMFDHNGKIIQKTPYPRPR GTTVSVQQLFSTLPVRHKEFQR NIKKEYAKMVQVLHAYC\SFQ QASV*VAPISLDK/RKRQPVVCT GGSPSIKENIGSVFGQKQLQSLI PFVQLPPSDSVCEEYGLSCSDA LHNLFYISGFISQCTHGVGRSST DRQFFFINRRPCDPAKVCR LVN EVYHMYNRHQYPFVVLNISVD SECDINVTDPKRQILLQEEKLL LAVLKTSLIGMFDSDVNKL NVS QQPLLDVEGNLIKMHAADEK PMVEKQDQSPSLRTGEEKKDV SISRLREAFSLRHTTENKPHSPK TPEPRRSPLGQKRGMLSSSTSG AISDKGVLRPQKEAVSSSHGPS DPTDRAEVEKDSGHGSTSDSE GFSIPDTGSHCSSEYAASSPGDR GSQEHVDSQEKAPETDDSFSDV DCHSNQEDTGCKFRVLPQPTNL ATPNTKRFKKEILSSSDICQKL VNTQDMSASQVDVAVKINKKV VPLDFSMSSLAKRIKQLHHEAQ QSEGEQNYRKFRAKICPGENQA AEDELKEISKTMFAEMEIIIGQF
21392	51760	A	21520	238	413	
21393	51761	A	21521	288	467	
21394	51762	A	21522	1	3038	MDVGWDLGEDCWQEH LHTAF SFDCWPCSQNGDRVPSVNPVG GGAPRSYLQVASAECWAAAPA VHVGEVHAGGLHTEGADPV IGLYLVHRGGACQTPTVGNRQ TPTLGIHARPRRRATTSLTLLL AFGKNAVRTEPAKAIKPIDRKS VHQICSGPVVPSLSTAVKELVE NSLDAGATNIDLKLDKESGLI KVQANEWGVEETSKGLLLKH HTSKIQEFADLPQVETFGFRGE ALSSLCALSDVTISTCHV
21395	51763	A	21523	34	256	ETGPPGSAPGRLEFTNIKR VVVP QERVELETLLVSYFSRTPRRT PPFPHPCS*EDNVITVFSSIKNGP GSSR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21396	51764	A	21524	727	2953	HVSGYDDVPLGTLSLDIWPPAL FSVVSFAAFFFTPIEAVLKSFSC LLVWYIGMAQPKQERVARARH QRSETARHQRSETA/KTPTLGN RQTPTLGNRQTPLRGIHARPRR RATTSLLTLLRAFGKKTQS/STE PAKAIKPIDRKSVHQICSGQVVL SLSTAVKKIVENSLDAGATNID LKLKDYGMDLIEVSGNGCGVE EENFKGLTLKHHTSKIQEFADL TRVETFGFRGEALSSLCALSDV TISTCHVSAKVGTRLVFDHDGK IIQKTPYPHPRGTTVSVKQLFST LPVRHKEFQRNIKKAQR/PQAR/ CYRCS*PNVSPGPGMAAASTLS A*PRSQSSYFISCKA/EDNAICPI AEQKAEGKFSSRYRNHDSAEN RRDGSMTRPRTDWTLKRACTE KRRPQHASSFEWRGHSWCWDR EQRDAETLKMLLDGSLSVQKK TKDRTETRFGEMGQILGKIMMS HQPQPQEEQSPQRSTSGYPLQE VVDDEVSGPSAPGVDPSPPRRS LGWKRKRECLDESDDPEKEL APEPEETWVAETLCGLKMKAK RRRVSLVLPYYEAFNRLLDP VIKRLLAWDKDLRVSDKIPSEP TILGASPKTLPPASRICIRPSNTP PPRNFHMSTVTPMLS LANDM EEDDEAPKQNIIFYFLYEETRSHI PLLRELWFQLCRYMNPARKN CSQIALFRKYRFHFFCSMRCRA

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21397	51765	A	21525	1054	2349	SCPQIIFLSSCLQVASAECWAAA PAVHVGEVPVHAGGLHTERGAD PVIGLYLVHRRGACQPTNIGSR QTPTLGIHARPRRRATTSLLTLL LAFGKNAVRCALIGPGSLTSRT RPLTEPLGEKERREVFPPRPER VEHNVESSRWEPRRRGACGSR GGNFP\SPRGG\SGVASLERAES SSTEPAKAIKPIDRKS\HQICSG PVVPSLRPN\AVKELVENS\LDAG A\TNVDLKLKDYGV\DLIEVSG\ NGCGVEEENFEGL/TLSALKH HTSKIREFADLTRVETFGFRGE/ AL*ASLCALSDVTISTCHVSAK\ VGTLTGVFDHDKIIPENPPNPH PRGTTVS\VKQLFSTLPV\RHKEF QRNIKKKRA\CFPFAFCRDCQFP EASPAML\VPQPAELTPR\STP\PH PCSLEDNVITVFSS\VKNGPGSS KMICTNGSSPSS
21398	51766	A	21526	2	393	
21399	51767	A	21527	2	165	
21400	51768	A	21528	3	196	
21401	51769	A	21529	1	411	
21402	51770	A	21530	1	1727	GPQGVGRMAEGKAGGAAGLF AKQVQKKFSRAQEKVLQKLGK AVETKDERFEQSASNFYQQQA EGHKLYKDLKNFLSAVKVMHE SSKRVSETLQFIYY\SEWYGHEE LKAIVWNNDLLWEDYEEL\A DQAVRTMEIYVAQFSEIKE\RIA KRGRKLVDYDSARHHLEAVQN AKKKDEAKTAKAEFEFNKAQT VFEDLNQELLEELPILYNSRIGC YVTIFQNI\SLRDV\FYREMSKL NHNLYEVMSKLEKQHSNKV\FV VKGLSSSSRRSLVISPGVRTATV SSPLTSPTSPSTLSLKSESESVSA TEDLAPDAAQGEDNSEIKELLE EEEIEKEGSEAGSSEDDPLPAC NGPAQAQPSPTTERAK\SQEEV LPSTTPSPGGALSPGQLSSSA TEVVLRTASEGSE\RPKKTAS IQRTSAPRRPPPPRATASPRPCS GNIPSSPTASGGGSA\TSPRASL GTGTASPRTSLEI*PNPE\PPEKP VRTPEAKENENIHNQNPEELCT SPTLMTSQVASEPGEAKKMED KEKDNKLISADSSEGQDQLQVS MVPENNNLTAPEPQEEVSTSEN
21403	51771	A	21531	1	1530	

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21404	51772	A	21532	499	1587	HPRDPEAPSGPLWSASLPALYS QGHANEFDGSNSTSHAVLVLV QKHIKAVLSNKLCLSTSSLVQG VNAHLGTLIWPQPRGYLSRSA IPWFSVPTVTSGLHFPWEVQ*LF LLSCWGKAHQSLPQRMPELLC CQGMWVPEGSMATVGLSQQLF DSALLLLQKAGALNLDITGQLR SDDNLLNTSALGRLIPEVARQF PEPMPVVLKVRLGATPVAHGS TQTTATLRPASPFVGGSWATGP PNSAFPSPPSP/CLVVVNLRTPAS L/SSKGEALREHVCWWMSQL TVASSNVGFIDTDQVRTLMGTV FEKPLLDHLNGLSLGHGELPSLV WVNLHYVAPEIFVYEGYVVISS GTLLPEPEAKTTGRP
21405	51773	A	21533	1385	3111	IAPSEVKEHKMVLEMLNPIHYN ITSIVPEAMPAATMPVLLLTGLF LLVWNYEGTSSIPGPYCMGIG PLISHGRFLWMGIG\SACNYYN RVYGEFMRVWISGEETLIISKSS SMFHIMKHNHYSSRFGSKLGLQ CIGMHEKGIIF\NNNPWLKTR PFLYERLCHAPASVRMVTVCA ESLKTHLDRL\EEVTT\ESGLCG TCLTLRRVHGWDTSTNTVFLAG IPL\EESAIVVKIQGYFDAWQAL LIKPDIFFKISWLYKKYE\KSVK DL\KDA\IEVLIAEKRRRISTEEK LEECMDFA TELILAEKRGDLTR ENVNQ CILEMLIAAPDTMSVSL FFMLFLIAKHP\NVEEAHKEI\QT VIGERDIKIDDIQKLKVMENFIY ESMRYQPVDLVMAQSL*EG* C*SMGYPV\KKGTNIYSWNIG\R VHRL*FFPKPNEFTLENFAKNV PYRYFQPFQFGPRGCAGKY/LS AMVMMKAIL\VTLLRTDST*RT LPGTSVFESI QEGYTTCPWHPD\ ETKNML\EMDLYPKETSDRCLG TLRRKAGQYLTGAFSPSVCSP TNHPILCPLVFILHSGTSLGPM
21406	51774	A	21534	129	378	IVCKFSVSTHKNIRAKKPDRLP ECGTQIRKDTLKRVRRTVLHYL C\PPPSVPEIPAWR\GDCSP/VGK EGKCTPDLNPNIELRPV

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21407	51775	A	21535	1	474	MQKQIISVTEVEWYPKYNM KEYWSTQNHQFEQLSTHKNIR AKKPDERLPECGTQIRKDTLKR PCPLDRPLWPHITAEQSGKPS WPAPCDP/IF*ANIHLPSLHTGPC RSKVQAHSSRPGCQASSTCVPR LQDLPC*PRFRLTLVDQDARPA APVYQGSRTYPADPDSRPAPVD SGCIISGQADW
21408	51776	A	21536	2	325	
21409	51777	A	21537	2	1011	WAFSITERREFQVYVNSCPSS WIGDARAFSPDPTGLYPIYSQ DTQTFRLWLNNTDFPGSPAC KWQAMELLSPQSPFRVDRGEH LPFLVKGARYTLVPAGQEGAL AAWLEALRGQLGRRGAVVSM MDAEGLESPDCAMGLSDGE WQLVLN\VGKVEADIPGHG\Q EVLIRLFKHPETL\EKFDK/FTR HLKSED\EMKASED\LKKHMC TVLTP\LG\HILRE\KGHH*RQR FKPLGTSSHCHPSTKIPPLKVT EFHLP\GIAFIQVLAEQAI\PGDFG\A ECPGAQLKQRPWELFRKNNG LPTYKEAGAFQGARALAGFPT THLGPPGFKKRAGV
21410	51778	A	21538	157	322	
21411	51779	B	21539	1	975	
21412	51780	A	21540	218	388	RKLPLAGLPCINRQHS*SNVNIC FLTPV*KIQN*LQSEQFLPYPTIV IITLCFFAV
21413	51781	A	21541	663	933	GCAGPCLVNQMFGKQYYLGKS HHP\SLVSLNRGAHCTVGKPPQ PSGP*KLGYYFKVFPPCG*FWK YGP SWGMEERAWTGSPLGPGP PLKKV
21414	51782	A	21542	389	1033	NQGLRNLGLCRTCLVNKMFTS SILGKSHRHSLSVINSQGNALW KAAG\PLPLKAGYC\QGFSPCHS LKYG\SWDEKDLTPQPDTLKG SVLRWISKRGKPLAVEIEEGHC L\CLPLGTECLGK/PPIVHLFNSE IGE\NRPYGGR*DMFCSNGCLG* FL*LPLRCLG\GEKHKSGL/HVHI PVIVPPELNYDIDSFAHMFV DLS\LIITLLSCYIPFC
21415	51783	A	21543	82	163	
21416	51784	B	21544	1	211	

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21417	51785	A	21545	71	1086	NMNLSLVLA AFCLGIASAVPKF DQNLDTKWYQWKATHRRLYG ANE EGWRRAVWEKNM KMIEL HNG/EKYSQGHV GFTMAMNA FGDMTNEEF RQMMGC FRNQKF RK GKVFREPLFLDLPKSVDWR KKGYVTPVKNQKQCGSCWAFS ATGALEGQMFRKTGKLVSLSE QNLVDCSRPQGNQGCNGGFMA RAFQYVKENGGLDSEESYPYV AVDEICKYRPENSVANDTGFTV VAPGKEKALMKAVATVGPISV AMDAGHSSFQFYKSGIYF*PDC ISKNL DQGV LVVGYVFEGANS NNSKYWL VKNSWGP EWGS\N GYVKIAKD\KNNHCGIATAASY
21418	51786	A	21546	170	412	LWLSFLLMHW H*IPLA AVSVFT VSN/PILDFS* IQLKTPKHFGNLG NTGFLGKQLRLLLRSLVSVSRL HCLLG YRRTQMPPL
21419	51787	A	21547	1	753	
21420	51788	A	21548	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDL PWEINPLSSCSLL HEKDPPTTSGPQT NQPKKHLTN FKSRKVERTKGLL KTHLTKLSH QLKKA WTILLPLSLLRIQACPR NAT
21421	51789	A	21549	1	753	
21422	51790	A	21550	291	671	
21423	51791	A	21551	10	453	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DL PWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSE TKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QQCQTMQGCLPWSFTLSGKSR FPGAGASTPQPLLLHP
21424	51792	A	21552	740	1010	TAMLLKQSLFGCLFTRTRMKF GAVTRIG\DL P*ETNPLSSCSLLR DKDPPTTSSPQTHQPKKHLTNF KSGCSSPGRARSQSFLSLSSTL
21425	51793	A	21553	134	358	TAMLLTQSLFGGLFTRTRMKFG AVIRIG\DLLWEINPLSSCSLLHE KDPPTTSGPQTDQPKKHLTNFK SSCSSPG
21426	51794	A	21554	392	645	

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21427	51795	A	21555	1	1900	MQNALESLSNRIEQVEERNSEL EDKFFELTQSNKDKEKRIRKYK QSLKEVWDYVKGPNLRIISVPE EEENSKSLENIFGEIIEENLPSLA RHLDNQIQEAQRTLWKLIAKRS LPRHIVIRLSKVKT KERILRAVR QKHQVTHLTCKESYKLKVKG WKRHFQMMDTKNEQGIKNEN HLIISIDVEKASDKIQRFMKTL SKIGIQGKYLNVIKAIYDKPTAN ITLNREK/LESIPSEKLKAFPLRT GTRQGCPLSPLFFNTVLEVLAR AIRQEKEIKGIQIGKEEVKLSLF ADDMIMYLENPKDSSRKLLEWI KESNKVSGYKTHVHKSVALLY TKQ*\QAENQIKNRNPF AIAAKK KKKKKKKKKRNSRIYLT KESK DLYKENYKTLLKEIDNMNKW KHIPCSWMGRISIVKKL* LQKA IYKLNAILIKIPPLLFTELEKTILK FIWKS NKS\RIAKVILSKKNKSG GITLPDFKLYYTIRKINSKWIKD LNLRPETIQILEDNIGKTLLEIGL GKDFMTKNPKANAKKTKINR WDLIKLSFCTAKGTVSRVKRT HRVGENLPHYTSIHPTIYTIYTS DKGLISRIYNEFKQIVTRTTCVF LHPPHPKAKTTSYGDQLLGGN
21428	51796	C	21556	10	339	
21429	51797	B	21557	97	1458	
21430	51798	A	21558	1	387	
21431	51799	A	21559	3	604	GSVIAYYWSEFSIPQHLVEEAE RVMAEERVFM LPPRARSLKSFV VTSVVAFRESEGQGWAWDWPP FHGVGLGPGPLQGTGTPRAQCP REKTTCPWPGTSL*IIRKQE*GNG LYQEMLYSPSYSSATDSKTVQR TQDNSCSFGLHARGVELMRFTT PGFPDSPYPAHARCQWALRGD ADSVLSLTFRSFDLASCDEARS DLV

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21432	51800	A	21560	1000	2084	FRGTPVQRGGGWADLPGRGCE LGRRLRSEEQARRVHKAPS/DF GTG/LKENTGKVNGLEEGVEFL PVNNVKKVEKHGPGRWVLA AVLIGLLLVLGIGFLVWHLQY RDVRVQKVFNQGYMRITNENFV DAYSNSNSTEFVSLASKVKDAL LYSGVPFLGPYHKESAVTAFM WWREGSVGCTPDWLGVGSG YSVWGTRKREMVLEVLDWRAK EGPRCVLLEGSVIAYYWSEFSIP QHLVEEAERVMAEERVVMLPP RARSLKSFVVTSVVAFPTDSKT VQRTQDNSSCSFGLHARGVELM RFTTPGFPDSPYPAHARCQWAL RGDADSVLSLTFRSFDLASCDE RGSDLVTVYNTLSPMEPHALV
21433	51801	A	21561	3	2820	TGALILQKGEIRVINQTTCEALL PQQITPRMMCVGFLSGGVDS QVPPGQEGGRQFPLKETNNRK GRLPKRLRPHTWCCYSLECSY SLRCTEDTWTEQKVNGLEEG VEFLPVNNVKKVEKHGPGRWV VLA AVLIGLLLVLGIGFLVWH LQYRDVRVQKVFNQGYMRITNE NFVDAYSNSNSTEFVSLASKVK DALKLLYSGVPFLGPYHKESAV TAFSEGSVIAYYWSEFSIPQHLV EEAERVMAEERVVMLP
21434	51802	A	21562	111	465	
21435	51803	A	21563	2	197	
21436	51804	A	21564	359	405	EMQSRED*RK*YL*RIVNCVPL RERLGIVCGGLGERSKEGTLWI YQGLQKSQDTGRV
21437	51805	A	21565	208	287	IVSRSEKGWVMYVEGWEREAR REHYGYIKGYKNHRIHMMQSS KALV*LEDLRKHI*IFRCVFSNP QVILML
21438	51806	C	21566	141	305	
21439	51807	A	21567	170	973	RMAACRALKAVLVDSLGLTHI EDAAVPGVAQEALKRLRGASVII RFVTNTTKESKQDLF/KRLRLK G\FDISEDEIFTSL\TAARSLL* R KQVTPMLLD*SGHYLIFKGIQ TSDPN\AVVMGIGTRTFSLSKF WNQAFRLLLGWSTSDSNSQSQ GFQEFKMGLALGPWTIL*LL*K YATDTKATVVGKPEKTFFLGSI AGHWLLNLEEA VMIG\DDCRG\ DVGGAQDVGMGLGVKTKGYR ASDEEKINPPPYLTCESPHADV

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21440	51808	A	21568	42	211	
21441	51809	A	21569	92	366	AGSEMRPGLTWACSLARLLLSP SFIKHWFLSCLLSCSRSGSGYA QWCPPHQSASAAGHCQTPAHA QAYLSSPPQMDHSSVRSLLLEAC QTY*SASAAGHCQTPAHAQAY LSSPPQMDHSSVRSLLLEACQTY
21442	51810	A	21570	1	834	
21443	51811	A	21571	3	835	
21444	51812	A	21572	1	1649	MPIVLVDWSDIREQKRLMVLR ASVALHGRSVTLYEKAPLSEQ CSKKAHDQFLADLASILPSNTT PLIVSDAGFKVPWYKSVEKLG WYWLSRVRGKVQYADLGAEN WKPISNLHDMSSSHSKTLGYKR LTKSNPISCQILLYKSRSKGRKN QRSTRTHCHHPSPKIYSASAKEP WVLATNLPVEIRTPKQLVNIYS KRMQIEETFRDLKSPAYGLGLR HSRTSSSERFDIMLLIALMLQLT CWLAGVHAQKQGWDKHFQAN TVRNRNGSLLTNWPSVPPTIKE EENSEEELAAATTSKEQEPIGTD LDAVRTPEPLEEFPKREDQEGS PPETSLPYKWVVEAANLLIPAV GSSLSEALDLIESDPDAWCDLS KFDLPEEPSAEDSINNSLVQLQA SHQQQVLPPRQPSA\LVPSVTEY RLDGHTISDLRSSRG\ELIPSPS TEVGGSGIGTPPSVLKRQRKRR VALSPVTENSTSLSFLDSCNSLT PKSTPVKTLRFS\PSQ\FLNFWN KQDTLELESPLTSTIPVCSQKV VVTTPHLDKTPHQAHA

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21445	51813	A	21573	59	2384	PRPGSRSGLCRRAGERGAVRAG GMSRRTRCEDLDELHYQDTDS DVPEQRDSKCKVKWTHEEDEQ LRALVRQFGQQDWKFLASHFP NRTDQQCQYRWLRVLNPDLVK GPWTKEEDQKVIELVKKYGTK QWTLIAKHLKGRLGKQCRERW HNHLNPEVVKSCWTEEDRIIC EAHKVLGNRWAEIAKMPLPGR TNAGKNHWNFTIQK/RKGDGTG GFLREYKD*KPPVYLPL\ELEDK DGLQSAQPTREGQRSLLTNWPSV PPTIKEEEN\SEEELAAATTSKE QEPIGTDLDVAVR\TPEPLEEFP\K REDQEGSPPETD/SLPYKWVVE AVNLLIPAVVS\SLYEALDLIGS\ DPDAWCDLSRFDLPEEPSIEDSI NNS\LVQLQAS\HQQQILPPRQP SA\LVPSTVEYRLDGHTISDLSR SSRGELIPISPSTEVGG\SGIGTPP SVLKRQRKRRVALSPVTENSTS LSFLDSCNSLTPKSTPVKTLPTS PSQFLNFWNK\QDTLELESPLA DYPPQVCSQKVVTTPHRLDK TPLHQKHA\AFVTPDQKYSMD NTPHT\PTPFKNALEKYGPLKPL PQTPHL\EEDLKEVLRSEAGIELI IEDDIRPEKQKRKPLRRSPIKK VRKSLALDIVDEDVKLMMSTL PKSLSCRITAPS\SSSTLTLGK EDNSL\LNQGLLAGPSPRKAAC VPEGPESHFHGQLAPYVPVPGK
21446	51814	A	21574	190	889	SLPRRLESPGRLAMAARGVIAP VGES/LCRYAEVPCSPSAKRDPDA DVDQQRLVRSLIAVGQGVAAAL AFAG\RYAL\RIWKPLE\QVITET AKGRFQTPRFSSY**GG/FLNII* LRREA\GLILGVSP\SAGKAKIRT \AHR\RVMILESPQIKGGSPYVA AKINEAKD\LLETTTKRLMLKD HTEGKKNEGTSKKKKSPAKYS KTWSFLIFYMGFDHSLIFRPLSC ITNKMLIVLLFIIF

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21447	51815	A	21575	2	652	EGYIC/RHFTGSSALLTRTHITY GVIANVAVVRINSPNS\RMLAA CKTLQEV TQLSQEAQRIVEKLE KSTKPIVAAINGSCLGGLLEVAI SCQYRIATKDRKTVLGTPEVLL GALPGAGGTQRLPKMVGVPAA LDMMLTGRSIRADRAKKMGLV DQLVEPLGPGLPPEERTIEYLE EVAITFAKGLADKKISPKRDKG LVEKLTAYAMTIPFVRQQVY
21448	51816	C	21576	98	316	
21449	51817	A	21577	35	247	
21450	51818	A	21578	1	2391	LQLKMVACRAIGILSRFSAFRIL RSRGYICRNFTGSSALLTRTHIN YGVKGDVAADRINSPNSK\VNT LSKELHSEFSEVMNEIWASDQI RS AVLISKPG\CFIAG\ADITML AACK\TLQ\EV TQLSQEAQR\IV EKP*KSPQSLIVGCPSNGSCLGR RTLRLPISSPQYRIATK\DSKTVI *VPPE\VFLGGPLPGRQGGHTK GCPKMGGVCLPAFGHECLTGR SIR\ADRAK\KMGLVD\QLVGT GTQGLKPPEERTIEYLEEVA\ITF AKGLADKKISPKRDKG\LVEKL TA\YAMTIPFVRQQVYKKVEEK VRKQTKGLYPAPLKIIDVVKTG IEQGS DAGYLCESQKFGELVMT KESKALMGLYHGQVLCKKNKF GAPQKDVKHLAILGAGLMGAG IAQVSVDKGLKTILKDATLTAL DRGQQQVFKGLNDKVKKKAL TSF\ERDSIFSNTLGQLDYQGF* KRPD MGELKAVF\EDP*SLSHR VLKGVGSR*FPDHWYSLPSNT SALPISEIAAVQQKT*EG*LGMH YF\SPVDKMQLL\EIITTEKTSKD TSASAVA\VGLKQGV\VII\VK DG\PGLLV TYQGVFAPMMSSEVI RILQEGS\VDPKKLGF PWTT SFG F\PVG\AATLV\DEVGCGMLAK HV\AEDLGKVFG\ERFGGNGPE L\LTQMVSKGFLG\RKS GEGLLT SSGRVVKRKILNSTMD\SI*ASL
21451	51819	A	21579	119	387	VEDSKEIFSSA*DYLSTHSHKHP ASHESYHVNPNCNPVAPTSGA HSIV*KWPSWLGTVAHSCNPSN FGRPRRADCLSSRSSRPAWPTR
21452	51820	B	21580	73	3177	

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21453	51821	A	21581	1399	5140	SGEPERALRGAAMRPSGTAGA ALLALLAALCPASRALEEKVC QGTSNKLT\QLGTFEDHFPQPS QRMF\NNCEVV\LG NLEITLCER NYDLSFLKTI\QEVAGYVLIALN TVERIPLENLQIIRGNMYYENSY ALAV\LFNYDANKTGLKELPMR NLQEILHGA VRFSNNPALCNVE SIQWRDIVSSDFLSNMSMDFQN HLGSCQKCDPSCPNGS\CWGAG EENCQKLTKIICAQQCSGRCRG KSPSDCCHNQ
21454	51822	B	21582	82	305	
21455	51823	A	21583	122	219	YAKRIYDVYYVHTAYTCTFHA *KIRGMTQ* ^{NW}
21456	51824	A	21584	404	1228	GLAAFLARARGRRRKELPGSPR PLPQLPAGGSPRWAMRPSQR RPPTLPMAASPAHWPRESLVLY HWTQSFSSQKVRLVIAEKGLVC EERDVSLPQSEHN/EMPWFMRL NLGEEVPV\IIHRDNIIQ/CTMDQ IHLTMWERTFHRERHVGALMP EVGSRAA\PRVLQYRELLDALP MDAYTHGCILHPELTTDSMIPK YATAEIRRHLANATTDLMKLD HEEEPQLSEPYLSKQKKLMAKI L\EHDDVSYLKKILGELAMVLD QIEGGAGRKRKLENE
21457	51825	A	21585	3	1194	KNLSVKLSENGTLKNCVVADS ETDIDVYMYTRVYVYIPRIENS WNDTIKLVGTATISAVGGDIDA QGEWAFPLLGPISLSPGPEWKV RVVIPDKGLVCEERDVSLPQSE PKPWFMRINLGEEVPV\IIHRD NIISDYDQIIDYVERTFTGEHV V ALMPEVGS LQHARVLQYRELL DALPMDAYTHGCILHPELTTDS MIPKYATAEIR/SDI* ^{PN} ATTDL MKLDHEEEPQLSEPYLSKQKKL MAKILEHDDVSYLKKILGELA MVLDQIEAELEKRKLENEGQK CELWL CGCAFTLADVSLGATL HRLKFLGLSKKYWEDGSRPNL QSFFERVQRRFAFRKVLGDIHT TLLSAVIPN\AFRLVKRKPPSFFR ASFLMGSLG\GMGYFALHGTSR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21458	51826	A	21586	1	929	MDPSIYFLPSKREGHLQAYIRDS VPEDPLILIFFSASSDQRPWLKA PHLPALRGFRGGGAGGGAQSR TTEDYVAWAKGNSPTSPSPRSR GGCSAKLSGPRRPPRRPGRLFN MAASANSVSRAWRTESPEGLE SLHSTLSAISVSRPEGGAELSD TADTMGFGDLKSPAGLQV\PTI TWRTRATSRGMCHHKQMWQY LKPCPAHRLPTCVMPIYV/GYNH IKSYEKEKASLPGVKKALGKYG PADVEDTTGSGATDSKDDDDID LFGSDDEESEEAKRLRE/DTSC TI*IKESQKTCTCCQVFHLTRCE
21459	51827	A	21587	1	2405	MALRVVRSVRAVLCSLHVACE KVGMPQIPRCYHERLSVAGNC RMCLVEIEKAPKDQSMFMFGND RSRFLEGKRAVEDKNIGPLVKT IMTRCIQCTRCIRFAIEAGVDD LGTTGRGNDMQVGTYIEKMFM SELSGNIIDICPVGALTSPKYAFT ARPWETRKTESIDVMDAVGSNI VVSTRTGEVMRILPRMHEDINE EWISDKTRFAYDGLKRQRLTEP MVRNEKGLLTYTSWEDALSRV AGMPPALALQSAEIAASARPPP RLGSEEPLCLAAHRLGCEEPLC LAASLESEERLCPAAIPGNLRY VFISSAKTDKYSKLAPVEWVTV EKVPENVEVTLELGNRQSRDR VSRIPGNAIWIWFTGFKWKKTV TTLWFLNLAIAADFIFLLFLPLYIS YVAMNFHWPFGIWLCKANSFT AQLNMFASVFFLT/GDQPGPLY PLDPSCLISSASNPQELSDCHYI HLAFGFSNWRSCPVLPGHCGV Q*SYSL*QFSEA*S*PHFDQAP CSDLGEIYHWLSLFPANNEYLL LVSHLQGEEAKHPDLQ*AFLDN SGCGCGLCGLLDSLPV*HLGA HHSPQ*LFPPCDAGWNPPLHWF GIPQ*LLEPHPLCPN**EVPSSLP VLSC*DTQVHTVGSQFLWQVL KEAKKPMVVLGSSALQRNDGA AILAAVSSIAQKIRMTSGVTGD WKVMNILHRIASQVAALDLGY

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21460	51828	A	21588	1	2065	MLRIPVRKALVGLSKSPKGCVR TTATAASNLMIRVFVDGQSLM\V EPGTTVLQACE\RIGMQIPRCY HERLSVAGNCRMCLVEIEKAPK DQSMMFGNDRSRFLEGKRAVE DKNIGPLVKTIMTRCIQCTRCIR FASEIAGVDDLGTTRGNDMQ VGTYIEKMFMSSELSGNIIDICPV GALTSKPYAFTARPWETRKTES IDVMDAVGSNIVVSTRTGEVM RILPRMHEDINEEWISDKTRFA YDGLKRQRLTEPMVRNEKGLL TYTSWEDALSRVAGMLQSFQG KDVAAIAGGLVDAEALVALKD LLNRVDSDTLCTEEVFP\TAGA GTDLRSNYLLNTTIAGV\EEAD VLLVGTNPRF\EAPLF*C*EFR KSWLHND\LKVALIRAVPVDL\ TYTYDHLG\DSPKILQ\DIASGK/ SHPFSQVLKEAKKPMVVLGSS ALQRNDGAAILAAVSSIAQKI\R MTSGVTGDWKVMNILHRIASQ VAVL\DLGYKPGVEAIRKNPPK VLFLLGADGGCITRQDLPKDCF IYY\QGHGHDVGAPIADVILPGA AYTEKSATYVNTEGRAQQTKV AVTPPGLAREDWKIIRALSEIAG MTLPYDTLDQVRNRLEEVSPLN VRYDDIEGANYFQQANELSKL VNQQLLADPLVPPQLTIKDFYM TGEVTEINEALAENPGLVNKSR YEDGWLIKMTLSNPS

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21461	51829	A	21589	56	2352	ATRPPRGSSWCRQFSRTASAAP GRSNMLRIPVRRALVGLSKSPK GCVRTTATAASNIEVFVDGQS VMVEPGTTVLQACEKVGMQIP RFCYHERLSVAGNCRMCLVEIE KAPKVVAACAMPVMKGWNIL TNSEKSKKAREGVMEFLLANH PLDCPICDQGGECDLQDQSM FGNDRSRFLEGKRAVEDKNIGP LVKTIMTRCIQCTRCIRFA SEIAGVDDLGTTRGRNDMQV GTYIEKMFMSSELSGNIIDIC PVGALTSKPYAFTARPWET RKTESIDVMDAVGSNIVV STRTGEVMRILPRMHEDIN EEWISDKTRFAYDGLKR QRLTEPMVRNEKGLLTYTS WE DALSRVAGMLQSFQGD VAAIAGGLVDAEALVALKD LLNRVDSDTLCTEEVFPTA GAGTDLRSNYLLNTTIAG VEEADVLLVGTNPRFEAP LFNAWIRKSWLHNDLK VALIGSPVDLTYTYDHLG DSPKILQDIASGSHPFSS QVLKEAKKPMVVLGSSAL QRNDGAAILAASSIAQKIR MTSGVTGDWKVMNILH RIASQVAALDLGYKPGVE AIRKNPPKVLFLLGADGG CITRQ\DLPKDCFIYQGH HGDVGAP\IADVILPGA AYTN\KSATYVNTEG* ASASIMLAVTTPGLSRED WKIRALSEIAGMT/LFPY DTL/DIQVRNQIGKKSS PNLVRYDDIEGVA
21462	51830	A	21590	246	761	MRLQGAIFVLLPHLGPIVW LFTRDHMSGWCEGPRMLSW CPLLQSLICLLQTAIYSV VG*VLVSHWPWYPMGW EQVLYI*ITYAVQLTIS WTVLVLFVHNPGLVRH TVLSSRSNVGEGETTWL QKHILAALLLPYLAWLT VTSALTYHLWRDSLCPV HQPQPTEKSD
21463	51831	A	21591	1	1497	
21464	51832	A	21592	1	1731	

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21465	51833	A	21593	1	6626	PRSLCFSLWAEAAVLADGGLR RRRRLLRGTMSASFVPNGASLE DCHCNLFCLADLTGIKW*KYV WGGPTSAPILFPVTEHPILSSSS RCLTAHVLGVRRRDQRPERR\ L*IFWWGEDP\VLLTLFTMTYQ KKKMECGRMDPFMNAVLCFS KAVHNLLERCLMNRNFVRIGK WFKPYEKDEKPINKSEHLSCS FTFFLHGDSNVCTSVEINQHP VYLLSEEHITLAQQSNSPFQVIL CPFGLNGTLTGQAFK
21466	51834	A	21594	1263	1906	AVRGMVRNARAVLKTGGTFLS PALEPLVAGGSGG/EFSQLGAEE RKAIAF/AIDHVDRRVPVLIGT GG/TNARETIELSQHAQQAGRT ASTIDVAHLRSMIHTVK/GAHP HFTVLCGYDDHLF/NTLLGGD GAISASGNFAPQVSVNLLKAW RDGDVAKAAGYHQTASIPDQLI HPYESRLFKCQHVLTRGITSF*L LCPPGSLRRQGISTYHSLHN
21467	51835	B	21595	113	484	
21468	51836	A	21596	300	780	KSGTNETIRRKARGGKIK\MDD LRG\PRCQ*EPWKRLMTIMPS CLHLWAQNTTVSILSFVDKDLL EPGCSVLLNHKVHAVIGVLM DTDPLVTVMKVEKAPQETYAD IGGLDNQIQEIKESVELPLTHPE YYEEMGIKPPKGVHPFGPTWPR VKPFCPRQ
21469	51837	A	21597	2	840	AIEHCQSGDNPESTRRGFLLQW LGRNPALVPHPGRTGHSQPPVT FHRHPSDCQRSPAGRFKGGPSH RGQPPPHKSPMTTASHLARC ARTYHQ\DSEAAINR\QINLE\LY ASYVY\LSMSYYFDRD\DVALK NF\AKYFLHQSHEER\EHC*ENL MKACRTNEGWPNL SFQDIKET KTCDD\WESGLNA\ME\CALHFE KKC*IKSLLEL\HKL\ATDKN*PP ICVDFI*DTFTLNEQ/V*KAIKRI WGDH/V*PKLWRKMGSAPNLG FGEYLF*QSTPWGSDNES
21470	51838	A	21598	3	390	

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21471	51839	A	21599	1	483	FQLEVTPQNITLNPFGGGPVFS WRDQAVLRQDGVVVTINKKR NLVVSVDGGTFEVVLHRVWK GSSVHQDFLGFYVLDSHRMSA RTHGLLGQFFHPIGFEVSDIHPG SDPTKPDATMVGILQKDYSKDP WHGAEVSCWFIHNNAGLIDG AYTDYIVPDIF
21472	51840	A	21600	1	1521	
21473	51841	A	21601	1	837	
21474	51842	A	21602	3	310	EVRLNLSSQALRMWLDYGFVT PLTSMISIRGMADQDGLKPTIDK PSEDSPPLEMLGPRRTFVLSALQ PSPTHSSSNTQRLPDRVTGVD* VVT*PYVLCWNLC
21475	51843	A	21603	62	462	MPLPLPSAFVLSALQPSPTSSS NTQRLPDRVTGGFVNGQLIGN KARSPGQVHDGTYFGRLGIANP ATDFQLEVTPQNITLNPFGGGP VFSWARDQAVLRQDGVVVTIN KKRNLVVSVDGGTFEVVLHR VWK
21476	51844	A	21604	37	2883	SMDGAMGPRGLLLCMYLVSL ILQAMPALGSATGRSKSSEKRQ AVDTAVDGVFIRSLKVNCKVTS RFAHYVVTSSQVNTANEAREV AFDLEIPKTAFISDFAVTADGNA FIGDIKDKVTAWKQYRKAIS* EKA\GLVRASGRTMEQFTIHLT VNPQSKVTFQLTYEEMLRNH MQYEIVIKVKPKQLVHHFEIDV DIFEPQGISKLDAQASFLPKELA AQTIKKSFSGKKTSNGSHSRRF QGHVLFRTVSQQQ
21477	51845	A	21605	1	1008	
21478	51846	A	21606	1	435	
21479	51847	A	21607	1	676	IRHQGAAQEGDAETPGSVERR GRRAGAEDGMSQAPGAQPSPP TVYHERQRLELCAVHALNNVL QPAA\FSQEADEICKRLAPDSR LNPHRSLLGTGNYDVNVIMAA LQGLGLAAVWDRRRPLVPS WPCPKGLG*ILN\LPSPVSLGLL SLPLRRRHLRWPCARL\VTVSY YNLDSK\LRAPEGPGGLRTE/LR GLSLAAALAQGLCEVLLVVTK EVEEKGSWLRTD
21480	51848	A	21608	89	316	ELLSPLL VAPGPSDLTVTGLKSF SSPSLCSLNTLLAGTSRLMVA*L YESLGQGEDLGLLTPGPEFLSIS SYCNFM

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21481	51849	B	21609	1	1920	
21482	51850	A	21610	1	1727	LPRVLGHSGHRGGLSSRRSQGL VSRFRLRALCGAGSDMWRLPG LLGRALP\RTLGP\SLWRVTPKS SSPDGPQTTSST\LLVPVPNLDR SGPHGPGTSGGPRSHGWKDAF QWMSSRVSPNTL\WDAISWGTL AVLALQLGR\HIHFQAFLAAGP\ KRVE\HCS\WHSPL\DRFFSSP\L WHPCSSLRQHILPSPDGPAPRHT GLK/ENPRLGKEVEASAQPRNFS HNSLRGARP\QDPSEEG\PGDFG FLHASSSIESEAKPAQPQPTGEK EQDKSKTLSLEEAVTSIQQLFQL SVSIAFNFLGNQMDPAPRQEGT ENMKSGDHTAAFSYFQKAAAR GYSKAQYNAGLCHEHGRGTPR DISK/SV*KAGLYYQLAASQGH SLAQYRYARCLLRDPASSWNPE RQRAVSLLKQAADSGLREAQA FLGVLFTEKPYLDEQRAVKYL WLAANNNGDSQSRYHLGICYEK GLGVQRNLGEALRCYQQSAAL GNEAAQERLRALFSMGA\ASPG APTNLTVTGLKSFSSPSLCSLNT LLAGTSR\LPH\ASSTGNLGLLC RSGHLGASLEASSRAIPHPYP\ LEKN\VVRLGFG
21483	51851	A	21611	1104	1680	LATPDVRYCYLSTYTSLPNPAR RFFLFSLCCKFSSH\KTATVKK YNKSEYPWDLVKAHLQGAFTS NITFDISELQNKILDNRHTQEF QPSLEDWTEFQEGLESNPWTY LKYHSNLYVVVLGVMLFCLCLL FIVCKIGWTANRRMRAAQPG TFFQLIHKQGDMQGAEGPWDV TNSAFHWRLYDQTANCLS
21484	51852	A	21612	364	824	LCIILFKQLSTWRTGCAQPTKR GYTELQTEGPMLKSMFLWLGE QVQILQL\HSNCIVILTTLV/FCV TNLE*FIVCKIGWTANQKMGA AKPGLTFFLLICK\QKQDM*GA KGPWDVINSAFH*RM
21485	51853	C	21613	196	504	
21486	51854	A	21614	3	142	

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21487	51855	A	21615	1178	2285	IVWLMTTGGQCRY*LSALIKL* DR/WFQRLCIHVIQRLRPVHAH LYLQPGMEDGNSFRQMFRSTR SLHIPTRDLPLSPDTTVVLHQVY NVLLGLLSRAKLYVDAAVHGT TKLVPYFSFMTYCLISKTEKLM FSTYFMDLWNLFQPKLSEPAIA TNHNKQALLSFWYNVCADCPE NIRLIVQNPVVTKNIAFNILAD HDDQDVVLFNRGMLPAYYGIL RLCCEQSPAFTRLASHQNIQW AFKNLTPHASQYPGAVEELFNL MOLFIAQRPDMMREEELEDIKQF KKTITISCYLRCLDGRSCWTTLIS AFRILLESDEDRLLVVFNRGLIL MTEGKDVTFMIVCC*TTSFLIIS SIYYAELQSTVKNLLKH
21488	51856	A	21616	1	436	
21489	51857	A	21617	369	508	
21490	51858	A	21618	2150	3120	DLRALALLSVHTPKQLNPALI PTLQELLSKCRCTCLQQRNSLQE QEAKERKTKALALWTIITFRV GGGNTLGVTLGRVVCSAEPPK YKC*KQN*LPTSPPNVILMTFRE VSLLACVFTDDEGATPIKRRRV SSDEHTVDSCISDMKTETREV LTPTSTSDNETRDSSIIDPGTEQ DLSPENSSVKEYRMEVPSSFSE DMSNIRSQAEEQSNNGRYDD CKEFKDLH\CSKDSTLA\EEESE\ FPSTSISAVLSDLADLRSCDGQA LPSQDPEVALSLSCGHSRGLFS HMQQHDILDTLCRTIESTIHVV RISGKGNQAAS
21491	51859	A	21619	2	4049	EEENGREYKFDVSSELLEWIWH DNMQFLQDKNIFEHTYFGFMW QLCSCIPSTLPDPKAVSLMTAK LSTSFVLETFIHSKEKPTMLQWI ELLTKQFNNSQAACEWFLDRM ADDDWWPMQILIKCPNQIVRQ MFQRLCIHVIQRLRPVHAHLYL QPGMEDGSDDMDTSVEDIGGR SCVTRFVRTLLIMEHGKPHS KHLTEYFAFLYEFAKMGEESQ FLLSLQAISTMVHFYMGTKGPE NPQVEVLSEEEGEEE
21492	51860	A	21620	58	219	

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21493	51861	A	21621	195	1187	RVPRTWLLPSFCASRSRENEGL SEFGASQTVTPSPASSVQAWEA MEPEFLYDLLQLPKGVEPPAEE ELSKGVCKKYLPTSRKDPKFE ELQKVQQEWINATLLPEHIVVR SLEEDMFDGLILHHLFRKWAAL KLEAEDIALTATSQKHKLTVVL EAVNRS\CSWRSGRPSGA/WEST WNKDLLSTLHLLVALAKRFQP DLSLP/D/HTNVQVEVITIEVAA NFVNQKLDRLGLSVQNLDQV GTGVILLLLIGQLEGFFLHLKEF YLTPNSPAEMVSFVTLAELL/I GRGPAQLPC/LALKVSAT/MDA KSTLRVLYGLFCKHTQKAHRD RTPHGAPN
21494	51862	A	21622	96	1350	AAGLLPPGLVPEDPRRTRNLLP FGIQGPPFALSRLPFCVESGWA WEAMEPEFLYDLLQLPKGVEPP AEEELSKGGKKKYLPTSRKDP KFEELQKPA\VLMEWINATLLP EHIVRSLEEDMFDGLILHHLF QRLAALKLEAEDIALTATNQK HKLHWCWRP*TGVCWSRSGR PSGA/WESIFNKDLLSTLHLEA LAKRFQPDLSLPTNVQVEVITIE STKSGLKSEKLEEQLTEYSTDK DEPPKDVFDLFLAPEK\LNA VKEAIVNFVNQKLDRLGLSVQ NLDQFADGVILLLLIGQLEGFF LHLKEFYLTNPSPAEMLHNVTL ALELL/IGRGPAQLPC/LALK/TI VNKDAKSTLRVLYGLFCKHTH KAHRDRTPPWSPELTLTASKAQ SLPVSPAGGPEAAGCPPTVPLFP
21495	51863	A	21623	1	87	
21496	51864	A	21624	45	277	
21497	51865	A	21625	171	511	GKFRYSPALHSWATRLRTSTAA GHCCMNSSQNKLSKSWAMTR HALNVKRFTIFQSHQCSLSKKV NLSLFQQAERLPSQELTHLL QEVRCERDFPPEEATWTGLPV LPSQ
21498	51866	A	21626	276	387	
21499	51867	A	21627	1	218	

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21500	51868	A	21628	139	9009	ESSEDVSGGLPFLVDLGFRSVC VSLFHVKNPVQWDQKLPK KKK PVRSYCGSKLLQREVIQPDVME EMVVSCVIKHLNLVDALQSLIN FQYQEEHAEEDLLCKIMGETF KKLNAMERQLQNMKELELLC SMKEVSFDGNDLENMVL SLRE KFLQEVNSLIQKPSHPLAKTKT LVKSLMNRAELL LHVTIAAQSG LTRSISGTPAETPACKSASETKV ISHAVRQPVFLRSMSAPSDLEMI GNEDLEFTRANQRR
21501	51869	A	21629	1697	2056	
21502	51870	A	21630	237	1545	KPENKKSRTGRNRTKSTPGYRA /RPAAATARISARSTK*WKNSL AGRWARHICWTLWALIPRITLR /HVMAAGFPQRMQKDYRDAID ALCDANRFGQKKRLGFWRYKE DSKGVGLCSYLLIGFYYTDPKN GAAAMKAFVVTRVGDVFLAFA LFILYNELGTLNFREMVELAPA HFADGNNMLMWATLMLLGA VGKSAQLPLQTLADAMAGPT PVSALIHAATMVTAGVYLIART HGLFLMTPEVLHLVGIVGAVTL LLAGFAALVQTDIKRVLAYST MSQIWLRCSSRLACRHGCGGSL ECLQHEGIPYSRMGRPHTT SAL RRFTSEFGMGSACTLG YFFMY KQAVILLMLFTASVSA ACTLPI AIDHGTPGPAELLTVALRYNLS SYDAAYLELALRLEIPIAKGSPN FAFRRAATGNEGIMHFLRNK GILWI
21503	51871	B	21631	1	1440	
21504	51872	A	21632	525	716	PKTPAGPVEPMHQVPSSKRVPT RDKRTRGDSTRHSGQSKPTKRY NHAYEI*PRIKWFIPDAGC
21505	51873	A	21633	8	136	
21506	51874	A	21634	1476	1611	GCDPAPGLPAPPHT/QP/DH*NQ RQIGIG*FLTGTVPATHLRQLA AA
21507	51875	A	21635	461	827	AALQMRDTS DPADCGEQSVCG YSEPVPEYACFHRIQDLHDTET AACFSHAGSGRTHV*SQSEHAA GSVLWSYRYRC*TG TAGYTDR FSQQRCHVRRGISPRCWPEYQS RSWCRLFPSPESAG

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21508	51876	A	21636	1	3735	MAEASVFQTVDPWRPGFATIPD FLKERYDKTTRHIDFCFLIATGV CFLPIVLYSGALALNSLFHVGES LQISHGAAIWLLVILLGLAGILY AVIGGLRAMAVADSINGIGLVI GGLMVPVFGLIAMGKGSFMQG IEQLTTVHAEKLSIGGPTDPLP IGAAFTGLILVNTFYWCTNQGI VQRTLASKSLAEGQKGALLTA VLKMLDPLGLKPDLLAYNTAL RALIPQRLIAFDDAVRSTLKEEE KLVNSSDWGY
21509	51877	A	21637	840	1064	WSVENYHRRGYGGHIPLPAASP AVAAQWCDAGR*VPPAARRW HRHQVYLTYLITLDRGLSRARF CIPSAHCSAY
21510	51878	A	21638	979	1409	RLVVDIFHDNRHAFPRRLVSDA AAHNACTQHRGLFRGFNVFGE FLRFAFYILIVKENADQCAGFV GMRQRDKTFVFQV*GFFTCT GRSFNGFYCGDGGIMF/LPLFV RPSL*RW*SSWWLQSCSVLVVP ASADVLLSSRGRR
21511	51879	A	21639	903	1397	LPTLPMVMCCTTPTSSRKHWM *NPSTLT/HAWVPYTNFSPIYEG KCGMSGARVEGKVIYETQSTH KLLAAFSQASMIHVKGDVNEE TFNEAYMMHTAASPHYGIVAS TETAAAMMKGNAKRLINGSI ERAIKFRKEIKRLRTESDGWFF DNAAGYIDTITLGGPS
21512	51880	B	21640	1	5305	
21513	51881	A	21641	129	723	LITARGQVADRNLRLDLLAPWV PDAPSRALPEMTLDSRVAAAV DLFVARIGHQADGRRYIPQAIA QGVAIIAEAKDEATDGEIREM HGVPDIYLSQLNELLSALAGRC YHEPSDNLRLVGVGTGTNGKTT TTQLLAQWSQLLGEISAVMGT VGNGLLGKKKEKAAIQYNTLC KSCTLTHPKPHNESDH/IRCRC*

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21514	51882	A	21642	1	2230	MMRTSGGTRDNESSDDDERER ENRLSDEKSNEYANLVGGERY EPDEENPMLGFRGAGRYVSDSF LRLCSSLEIVKARETVALIQGLK H\DLLADDTALRALIPQRADRF MNAVRSTLKEEEKLVNSSDWG Y\DAQAFARWRPEYGYFAKQA GFTVKTSASLAALWQVVNQIG GKERYFFGNILWQTRALMDRAI GHKLAKGRPEREYLQTGDAVD SWKVIVVEPEKQLTLLFGMKAP GLGRLCFSLEDKGDYRTIDVRA FWHPHGNRAEREKPRFQPYSTR KSFIGNMMLLPMSIMPPVFRRVI CPLGVARLGKFRDPVYLVCVFT RQIFRYYTSGDEFLQINTTGGED IDDIDDIKLFVYEESYGISKESH WREAINAKAMGAMTLNWQEK RWQRFFNSEEPGNIEPVYMLEK VENQNHAKWEVHNFTMGYQR QVTEDTYEYLLNVVGVPVPD NIHPMTKDEAGVWSWRTPIK GNLYEYFFNVDGVRSIDTGTA MTNPQRQVNSSMILVPGSYLDT RSVAHGDLIAITYHSNALQSER QMYVWTPPGYTGMGEPLPVLY FYHGFGDTGRSAIDQGRIPQIM DNLLAEGKIKPMLVVIPDTETD AKGIIPEDFVPQERRKVIFYPLNA KAADRELMNDIIPILSKRFNVR KDADGRALAGLSQGGYQALVS GMNHLESFGWLATFSGVTTTT

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21515	51883	A	21643	1	1549	MDASGHHVRGFASGMGCCRV RRTMKRETGGGRLAGFRLVGT LGQHLGAHRSASKGHQILAAA RHVDRLAK\LQLA\NVSCHEVD LSWPDNLPALLQDIDTVYFLVH SMGEGGDFIAQE\RQVALNVRD ALREVPVKQLIFLSSLQAPPHEQ SDHLRARQATQ\EIRSEGNVPV TELRAEIIVGAGS\AAL\EVM\RD MVYNLPVLTTPRWVRSRTTPIA LENFLHYLVALLDHPASEHRIF EA\AGPEVFSYQQQFEHFMAVS GKR\RWFDPSPPLPTRWISVWF LNVITSVPPTTARALI\QGLKHD LLADDTALRALIPQRLIAFDDA VRSTLKEEEKLVNSSDWGYDA QAFARWRPEYGYFAKQAGFTV KTSASLAALWQVVNQIGGKER YFFGNILWQTRALMDRAIGHK LAKGRPEREYLQTGDAVDSWK MIVVEPEQQRTL\LFGMQAPGL GRL/CCFSLEDKGDY\RTID\VRA FWHPHGMGP/L*F*WLLMIPAH LFIFRGMAKQIARLAVPSTDLD
21516	51884	A	21644	201	363	SLRGSRTAASPCWAVPVHVP HGAGEPAHHPGHQP*LPPPHH VLLPLQPVLA
21517	51885	A	21645	3	440	PFSLPFSLGLTASLFMNTWLAIS SNCDGFIPASPACFCSFLMSSA L*RTKAM*IMC*FSGLSGSKGV YIR*ASHSL*NCAGLSSFP*MT SESLTFVAF*APLINPSKRASLS RFSLCISSLSCGSNWGSVPGNW VLPYSWGF
21518	51886	A	21646	359	543	VVTPDSGSSH*KANSFCLSGAN LMLKKASFRSKQVNQLSSAGS NPSNMYGLGTVGCKVTV
21519	51887	A	21647	2	582	
21520	51888	A	21648	3	574	
21521	51889	A	21649	1	195	LCVFFVLVSFFLSPLDSQLAVV C*FDGTGIGMYLTSAVSPPPRN GVVASVMYAVVTPMLNLFICS
21522	51890	A	21650	2	457	
21523	51891	A	21651	21	545	PPCTSLRPLHAFSGKMTHLNRG TSLLDSQLHNLIALQMTCFKD VEIPNFFWEPSVTPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGVGGYLGSDVSSSP RKRAVASVMYTVVTPMLNPF YSLRNRDMKSVLRRPHSSAV

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21524	51892	A	21652	899	1039	LWTSSLTAESSPMRAA*LRETSI VSAASRAFSALSSSALRAFSAC
21525	51893	A	21653	804	1390	QGTIILKVLRLRHWTPSRASL RTGYCFCLTGWTPGLTSISTGA WLTANPGGLSSAHTLGHRLAR AGLISWPGSVKKSLHSSSRGSIR VIMTPVPGNFSSKEPCSVKEIVA LSLLSKSLPNKGKGQSGMYKN* *ITLCPPIVQVWGKQKACFAET PMAPMMSIVFLDKGATEAVTT ECSALVSTRKSMSPPTV
21526	51894	A	21654	84	730	HLSDSKSQVRYQPSADLSFLLG HYNPQSSRRVLSVLDSQLHNLI ALQVTCFKDVEIPNFFCDPSQLP HLACCDTFTNKIIMYFPAAIFGF LPISGTLFSYSRIVSSILRVSSG GKYKAFSTCGSHLSVVC*VYGT GVGGYLSSDDVSSSPRKAAS VMYTVITSM LNPFYSLRN RDIK GVL RQPHGSTVQFQYLLICSIPF VVWVKKGSKVK
21527	51895	A	21655	1049	1979	
21528	51896	A	21656	2244	2901	LRCLSLPFLEAWKRDMLLSVM A\YDRFVAICHPLYHSAIMNLCS VGFLVLLSFFFFLSLSDSQLHN LIALQMTCFKDVEIPNFFWEPS QLSHLACCDTFTINIIMYFPTAIF GFLPISGTLFSYYKIVSSILRVSS SGGKYKAFSTCGSHLSVVC*FY GRGVGGYLSSDVSSSPRKGAV AAVMYTVVTSM LNPFYRLGN RDIKSVLRRPTEHCLISKK
21529	51897	A	21657	1	2850	

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21530	51898	A	21658	1	1703	KKMALTSFLPAPTQLSQDQLAE AEEKARSQRSRQPSLVSSRREPP PYGY\RKAWIPRLLEDF*DRGA FPEIHVAQYPLDMGRKKKMSN ALAIQVDSEGKIKYDAIARQQQ SKDKVIYSKYTDLVPKEVMNA\ DDP\DWQRP\DEEAIIITEKA\R VAL\EKSVSQKVA\AAMPVRAA *QIGPLLQYIPIHTISGKGVAIQT SWS*TRRVIR\MVEMQ\KDPM\E PP\RFKINKKIPRGPPSPAPVM HSPSRKMTVKEQGEW\KIPPCIS *LGKMAKGY\TIPLADKRLAAD GEEGLQDSYTLNGKFSAKLAE ALYIADRKAREAVEMRAQVER KMAQKEKEKHEEKLREMAQK ARERRAGIKTHVEKVKYFSTVH TEDGEARERDEIRHRRKERQH DRNLSRAAPDKRSKLQRNENR DISEVIALGVNPRTSNEVQYD QRLFNQSKGMDSGFAGGEDEI YNVYDQ\ALIGGKYMAQSIYRP SKN\LDKDMYGDD\LEARIKTN RFVDPDKGVFLVQTRRQRGREGP \VQFEEDPF\GLDKF\LEESPTAM GGs\KRPSG*PAAPREHGAWKA RKRRKE
21531	51899	A	21659	2	1588	CLRRALPGSIESAPTAPPPPPSGE GSQAYISRLPATLIVLILERRQL LGVWRRARCCSLINLAHRRHC GMPTRESPCAILARRYEGRRSPS TVAQPPPPPPPIELAPSTSETPIQ ATRGHAHPAQSS/VPPA/PARPPE RPPVPEQGPGSGTHPDTP/PGPT NAPQRPSAP\PN'TTN*PTRHMH QLPDAA*TPYPAYGSDYL*AR* DATASHQASCTN/SPDAA*TPYP AYAKIERA*ENPVPSAIKIIGRSS SSGRQASPWGMA/SPHWRSWR MGPNGSGKRPRRAAERISCCRN AQGRTHSQKAYIQQQPQCCVN VHLQPPD/PTPAQ/PSQTLSPDS /PAPPLPAYPS/TQHPTAPPPTSSP MSS/RIVKPHPQHCGARPGQGK ERDETERKDAKERNRRTATPTT RHTDRLPRTAHGPPPP\PPPPPP PPPPPPPRDSRRRPRRREKPEQQ KEGGQTGRTQRKETARRGEER ETGRKKTRGAPPPRPAAARRPH ETAETKRRPPARQHRPPRRRPS DGTERTRHQLGFIMLGLLSWN

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21532	51900	A	21660	2	192	RVDICSTNYCWWLYPMTSGPSF SYV*GP*EEDVRE*MCGRDGL* YLSIGVVCGFICQHNNRAQ
21533	51901	A	21661	783	2119	GSEMPVTVMMLTLGEPGHFMSS LG\CWCGVEDEAAPSKQSIYIQ RETQVRTPMAGVSPKKAHPCE MCGPILGDILHVADHQGTHHK QKLHRCEAWVNILYDSGNFHR RQNEHIGKPYRGSVEEALFAN RCKLHVSG\SHLSSVRV/EKDFL LRSGLLQQEATHTGKSNKTEC VSLFHGGKSHYSCGGCMKHFS TKDILSQHERLLPTEEHFVWCE CGKSSSKYDSFSNHQGVHTREK PYTCGICGKLFSSKSHLLVHQRI HTGEKPYECEVCQKFFRHKYH LIAHQRVHTGERPYECSDCGKS FTHSSTFRVHKRVHTGQKPYEC SECGKSFAESSSLTKHRRVHTG EKPYGCSECEKKFRQISSLRHH QRVH/T/NERAYECSESLIKYW RIHT*VRSCDCSKCGK/CFTQRS ALLGYWRVHTR\KSPYK*NKFG QFCSHTSVFLQDYS
21534	51902	A	21662	84	437	KMTSTQPVKFSLFASHSVPCGQ SFPGRRAFAFAMPRRRIPSSDHL PEPGQSHQHVNQRWACRELI AAFLPSSYRL*LVETGGEIGQRN RASCHSPFPAGSSPGIFQTEIGKP CLLP
21535	51903	A	21663	69	446	
21536	51904	A	21664	880	1365	
21537	51905	A	21665	1705	2196	RQNQREGDDDDTEDQPPRPGTQ MTELFFLIQMLCFMANALRQL VHPL/MGNVHEYFADLKMPAC AVSAFLCAMHRSITSMFE*DNG PGPADADAR\DMRIQVFMFCA NTLPARVLQRNKNPGQDHPET AERRAESQRIIEKGLKCIQKGKI VNSISMKEGVDAFIH
21538	51906	A	21666	1	1147	
21539	51907	A	21667	254	557	AADEIGGIAVETVTEDAHLLCG CTVVAIPPRICVSAGGGAGDRK SSVRFHQNLAQVHITRGV/VWT MTNSHIITCCATAFGTTTSPSPT ESTGVPCGRRNQH

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21540	51908	A	21668	557	1031	SSRNASGAVRKISRGMPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRIR*PICADRLSV ASPAACGIA\YTRRYSHDGATA EKY\HLQSRFRQQCRQFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTERSW
21541	51909	A	21669	572	825	QARISTSFFRESLPSRHPVPRYR PLEAFWTPCTRGYYRFFFSPAR ENAEYRTL\KHWAKFLLVRASF PGASTLCCCKSPGRTISV
21542	51910	A	21670	303	899	EDNYSGSSLYCFDDVASVQMP GSNGNCRR*CAGKTSG/TWRNS LVRQWLLTAQKKTLHAVSNL PKTWAQILFSKQRVLRSPNLRH LIW*CAAVKL*LLVLYPAIRQSI SSKSI\AKSLSRRYFR/LPIGDSM* NRW*RIFTIIGMYIGTAL*SDGAI VVCRLCENLPGSFHQHQRCD AASLAGGSEPIAFSRAGRTPGP
21543	51911	A	21671	1	1320	
21544	51912	A	21672	99	761	IDNAPPDQTTVHAF\AANSENHS PPQLPYETPDDADPTHQAFSRW RHRPQAYSADALLRERLP\THR HRGQSPDSLTS\LPYWRGRRKY RAAPALT*TPPDTLFDSP*PAV PPP\AKELPVTAQRQVHNAMS ANSFVIFHPVKIRNNIVLQPAIAI QRRNGHGVTRCAAALHSRHGS LSVARHRVHLPVCRQADDKPA PAPLRPARYCLCPNQSA\AVRYL R
21545	51913	A	21673	62	680	SSRNASGAVRKISRGMPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRIR*PICADRLSV ASPAACGIA\YTRRYSHDGATA EKY\HLQSRFRQQCRQFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTGPVRRSGAASASSPAVFLSG TSPWSFARTIALVRGRSRKSTRT RLWHISAHC
21546	51914	A	21674	411	481	

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21547	51915	A	21675	402	915	RLASKLFTTVTPRGGVGELQAT TRNAAVAGIKRKRSNRGRPAEE PELTADRGQGENEITEAATAAK ARRTMRPKTGNQNPDKHRTRG LQICHTFNANGNRARCSAANA MAATISGLSSGLSGTGWQETIR PPLAAIF*SSCASNDIHLPKSFLA LPNGTAPLNGLPSIAS
21548	51916	A	21676	1416	1832	GSAPRQRHLAARRPVTTTRPKHV SHHGPPQENSAHRLSHVDNESTC IVCGTLRLQHSARYFPPSLPETL FLAPVNHSV/EYNWQAAPVK*I Y*HQTFPGRDCQHLLHFVVRKF GVRESI/AQVVAVRAATSAWRY SRSSAITL
21549	51917	A	21677	97	300	
21550	51918	A	21678	756	1179	RRRLSPYCRAAAGSSPSYECF AHQRSVASSRGHTGTRQFYRE HWFLRCIRRLSGTRLLAYHRCF QPHLACSGKRAVSASSTRSADV AAWYRV/CAKPFSSSS*VQEDL SYLRFSA*P*TVIL*PACRKPCR KRRGQRRWR
21551	51919	A	21679	3	1279	
21552	51920	A	21680	1	2448	
21553	51921	A	21681	317	1985	PNTPLTSKLPLLTHPLTLLTPSA SGWQKTTKLSCVF/PETEKYAH ERLAHHVAQGANQYAPMTGV QALREAIAQKTERLYGYQPD DSDITVTAGATEALYAAITALV RNGDEVICFDPSYDSYAPAIALS GGIVKRMALQPPHFRVDWQEF AALLSERTRLVILNTPHNPSATV WQQADFAALWQAAGHEIFVIS DEVYEHINFSQQGHASVLAHPQ LRERAVAVSSFVKTYHMTGW KVGYCVAPAPISAEIRKVHGYL TFSVNTPAQLALADMLRAEPEH YLALPDFYRQKRDILVNALNES RLEILPCEGTYFLLVDYSALSTL DDVEFC*SLTQEHGVAAIPLSVF CADPFPKLIIRLIQTAAILLVN HERRANAVINVDHAEIPFLRIIL PFLRQRQHHAVIDHHPNAELL FQQIFHLHRRCPRRFRHGLRHA GHRINLTVDFQRQVDGMVRPQ FTVAMPAIFRRTAAPSASVHQ SGVRLPYQFMALIASDNFCCW VHGGYITLAVNGNDAIGSVFNN QIVKCPRTQCLGEVINTLTDL P HFTGQLW

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21554	51922	B	21682	160	312	
21555	51923	A	21683	80	452	
21556	51924	A	21684	158	1980	REDTAHLPAVGFLPQNPFRAIR ASGEMLLPLLLLLPMCWAVEV KRPRCV\SLTNHHFYRESKPFT\ CLDGSATIPFDQGGRLTYCDCK \DGS*RSQATAA\CPNGQAFH\C HQTGLG*SPL**SPSKPGSNDGV CDCCDGTDE\YN\SGVI\CENTC KEEGPVRRRESLQQMA\EV TRE G\FRLEEDPLFEGLGKKAREEK QKKL\MELQAGK\KSLEDQ\VEM LRTVKEEA EKPEREAK EQHQK LWE\EQLAGFQGGPNREQDARA ADAFKELDDMDGTVSVTELQ THPELDTDG DGALSEAEAQALL SGDTQTDATSF\YDRVWAAIRD KYRSEALPT\DL PAPSAPDLTEP KEEQPPVPSSPTEEEEEEEEEE EEAEEDSEVQGEQPK EA PPPL\SPQPASPA\EEDKMPPYD EQTQA\FIDAAQEARNKFEEAE RSLKDMEESIRN\LEQEISFDFGP NGDV\FAYLYSQ\CARDLTTNE YV\YTRLC PFQV LFFAGNPNSG VFPTSLGHLGASW\VLGPDHGQ VSVAMKF*ARHGACWQGP NPL QHP*RFWFGKET\MVT KHPQ*P SRCEYLHGS**TPAA\CPEPPAL KQPQPKD\DHDEVLSWMGARE
21557	51925	A	21685	59	359	LLRIGNDW CIPKG\TPTTHIIKLP IGEIRQPNATLDLSQSVDNEY Y CLLLAKELGLNVPDAEIIKAGN/ GARVSGRTF*QALEC*ANGFTS LATGGYVSDI
21558	51926	A	21686	1	213	MSIAVTTTDPNTGTVSTSSSSL TGSNAADLQSSFLTLLVAQLKN QDPTNPMENNELTSQLAQISTV SGIEKLNTTLGSISGQIDNSQSL QASNLIGHGVMIPGTTVL AGTG SEEGAVTTTT PFGVELQQAADK VTATITDKNGAVVRTIDIGELT AGVHSFTWDGTLTDGSTAPNG SYNVAISASNGGTQLVAQPLQF ALVQGVIRGNSDITTFGVNMKL AHLGRQALMGVMAVALVAGM SVKSFADEGLLNKVKERGTL LV GLEGTYPF SFQDDGKLTGFE VEFAQQ*FAHGQQRRTKQFS DFAGGAAEKPGPDQSN GKQRA DVAIGTNQH GQRD

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21559	51927	A	21687	1	2339	MSGGQTEKQAQLIRDFQPDMI MVTPSYCLNLIIEELERQLGGDA SGCSLRVGVFGAEPWTQAMRK EIERRLGITALDIYGLSEVMGPG VAMECLETTDGP TIWEDHFYPE IVNPHDGTPLADGEHGELLFTT LTKEALPVIRYRTRDLTRLLPGT ARTMRRMDRISGRSDDMLVLR RRHLCRPSACQLCRPPSLPATD RVLELFAQSGAQWLVLGDVL NHGPRNALPEGYAPAKVAERL NEVAHKVIAVRGNC DSEVDQM LLHFPITAPWQQV LLEKQRLFL THGHLFGPENLPALNQNDVLV YGHTHLPVAEQRGEIFHFNPGS VSIPKGGNPASYGMLDNDVLS VIALNDQSIIAQVAINPAPEKEG FLIMEQRRLASTEWVDIVNEEN EVIAQASREQMRAQCLRH RAT YIVVHDGMGKILVQRR TETKDF LPGICATSKVRKLLCKSAALLP VSELLLVLLTPVFVGS AVIGKL GAF AIHIDGITVKRRLVRNTVL QFCGRSRQPLEYVSAGDTGPVL RALKRMMAMRHYMRSQT VKG VTDTRAIDEVALSVAQVEEMY RYLA IANYEDRFVIPTSHREMA GD AFAERN GCGFTFGDGCHGS DSKFNLFNSSRIDAINITEILKVI GLLMEYPDELLWECKEDALALI RRDAPMLTDFTHNLLNAPLLD KQAEWCEVFDRGR TTSLLLF EH
21560	51928	A	21688	391	631	
21561	51929	A	21689	2779	3348	LMQLHNGLPVAGLRQFCQQLV IQRLYFFTATAHQCTRHMCHR HRSLLTAHRQMALCFQYVDDL HHAFADVLINNACYPLLMGEQ GVFIYNGTQQLLHWVIIDSRQD HGFGGL*KSRIVCERRRL*SQH GQFVFRHHVPDHRIDIAFNAL *TLVIREISSVPASVGVGIDFP GG AATWAGPVVIKPGQS

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21562	51930	A	21690	1	1239	MPNVDDVVGEMVNTMSASRSY QANVEVLNTEKAMSIATTTDP TNTGVSTSSSSLTGEQRRRFTK QFSDFAGGAAEKPRPDQSN GK QRADVAIGTNQHDAARILRKG TMTLLNPYFGEFGGMYVPQIL MPALRQLEEFVSAQKDPEFQ AQFNDLLKNYAGRPTALTKCQ NITAGTNTTLYLKREDLLHGGA HKTNQVLGQALLAKRMGKTEII AETGAGQHGVASALASALLGL KCRIYMGAKDVERQSPNVFRM RLMGAEVIPVHSGSATLKDAC NEALRDWSGSYETAHYMLGTA AGPHPYPTIVREFQRMIGEETK AQILEREGRLPDACVVGGS NAIGMFADFINETN/VSVPQH AYLNSSVRAD*VSITDDEDLQA FKTLTASYKTPAAAKTSLHVP
21563	51931	A	21691	32	1778	WDARVFSHSGWVLYLIRQYCSI SAVSSCGSTTGSA CSATSWATA TSDSVTHLR LFSYRGSDHFRMR RFNHFR LRFGNLNGGFYDTGHF FNNWRANNRFD SGGDRDLSHH RLHMYFFLFALLFNLYILRTYN WIADPDFARGQFRRRARYGQR HWRLGWITLVTIATTTLYAQ VTRRAARTTRHATVVTVISIVL FLFWCSLRDWHYCILIRSTP SVLSQYPVGNELRRRLVHLHL LCTYSDDDSRDPRYRQESRTRN GVVPVIVNIDVHRFGQTGDQH GAMIIPVIFLLNVAMHERASGHI PNGNRTYYLSRSQPPVFALMVE LFEEDGVAVARYLDHLKMEYA FWM DGAESLIPNQAYRHVVRM PDGSLLHRYWCDCHTSCD*SW LEDVETAKHSGRPPNEVYRDLR AGAASGW DYSSRWLRDTGR LA SIRTQFIPIDLNAFLFKLESAIA NISALKGEKETEALFRQKASAR PMREYETGEQWDKPNGWAPL QWMAIQGFKMYGDDLLGDEIA RSWLKTVNQFYLEQHKLIEKY HIADGVPREGGGGEYPLQDGF GWTNGVVRRLIGLYGEP

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21564	51932	A	21692	1	2514	MKTLIARHKAGEHIGICSVCSA HPLVIEAALAFDRNSTRKVLIEA TSNQVNQFGGYTGMPADFRE FVFTIADKVG FARERIILGGDHL GPNCWQQENADAAMEKSVEL AVVIDLWSRAVIGWSMSPRMT AQLACDALQMALWRRKRPRN VIVHTDRGGQYCSADYQAQLK RHNLRGSMSAKGCCYDNACVE SFFHSLKVECIHGEHFISREIMR ATVFNYIECDYNRWRRHWSINS LLSQRKNTQGRIEDGRQH
21565	51933	A	21693	1	1527	
21566	51934	A	21694	792	1602	HCLSARRYELVCQPK*AFVR*L LR*IAVLR\HLNIQHLRRSHSLR HGRRHTRKGERGTINIVNGTPI HERSRNIDNRRSPSPYIRKRGAH TELRS DHPLLINQHW HFFAGM VAVTNGRIVAVIRHHDQAIWL HRLNKP GKVTVNDLQTFGITCD VFCMTSEVGFLNVGANKRRRM GVKFVEGDIHNPLAIHQILPAH AIRIVDDICH LTHQHGWHACFI QFLWHLHFFIDAIAHMDLETV VISARTRRIDTNKAPFFAFCGIE
21567	51935	A	21695	1	1530	LSQQT VNTLQAGHQTIHFFMG VIHQRRP THRRD VVIGHQWH CAVMSGTHSNAVIEKTANIIGV VFTEIKSNNAKPVLWAIESNAA ATDGEIVFDGEILKSACEINDSD KKIEVALGHYNAEQFRNIGERS PKIPFTIPLVNC PMTGEIANILGS KPGTIFTMLRDTGGIKPHERKR AVAHLT LSEEEIRAGLSAKMS IRAIGYWR*IASPSTFSRE\VQRK GGHR\YYKAVDANIRANRMAK RPKPCLLDQNVPLRKL VLEKLE MKWSPEQISGWLRR TKPRQKT LRISPETIYKTLYFRSREALHHL NIQHLRRSHSLRHGRRHTRKGE RG TINIVNGTPIHERSRNIDNRR SLGHWEGDLVSGTKNSHIATLV DRKSRYTHI VRLRGKDSVSVNQ ALTDKFLSLPSELRKSLTWDRG MELARHLEFTVSTGVKVYFCD PQSPWQRGTNENTNGLIRQYFP KKTCLAQYTQHELDLVAAQLN NRPRKTLKFKTPKEIIERGVALT
21568	51936	A	21696	2	140	IITNSISRP GPPMSDPHS*SPAS SSAKTETKSLFNAFLV

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21569	51937	A	21697	1817	4083	KGLLTSFHYIKTPEVPNLCVEG GTRLQIWPACSSSTGSGGTCWK APPQPPRPPTSSSPS/PAPPSEAF VLSAGAMQLEAGAYSLVLIKES KNNVGVDVIKRKHFC TAGGNV NQYNHYGKHCVLSCSGPASGA QPLYRMAQPPSPNMAAGIPPA ARISSITSPLLKPSWLHLLAHP VLQAHLTEGLGRSHHVQRGQ CLVSKSVFTNACWEMQNVKRF TDFIPLHKNTRGPEPLCRRRNQ APNMACMQQHWQRRN
21570	51938	A	21698	247	281	KPGKQHSMLK*SALLPSAHGPT S/CKEARCHPVQILPPELLF*MP KKICPPLCYLWTVKAWETTFH AEV
21571	51939	A	21699	531	716	PRRLRAAPPDLGGFRLLPR/LPE ASGCSP*SQRLFQKAPSPAPCS WRRSRFCVKTCVLPMSGGQ
21572	51940	A	21700	202	606	ITCLHAHVTWCQILPYLMLPAP LLRPLPTPLTVAGVGQSLPEIQL SVTLPLQGRNQGSLESRLVLS WAEP*DPVSAVLPQGRNQGS LESRLVLSWAEP*DPVSAVLP PLQGRNQGSLESRLVLSWAEP
21573	51941	A	21701	444	1167	FRLHGLERGFYFLSPLAVQS SQSCLRRFTTRYHLPYVLNRK NSWHVAHIFRRHAKPEEQAPIY SHIHFTSDLDEVLPDVKLVV VCTHADSHFEYAKRALEAGKN VLVEKPFTPTLAQAKELFALAK SKGLTVTPYQNRFRDSCFLTAK KAIESGKLGEIVEVESHFYYRP VAETKPLPQDGAFFYGLGALFT NQQGFKSSLLSIFADSSSSVAG RSPHNLVKKRGGIVAISAFAG
21574	51942	A	21702	1	668	

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21575	51943	A	21703	1	1308	MRVYMDGRLIVSTRQRKVLAA GPMLYAATRPAFTMSGDNLV RSHASIYMTSCHTLLGEQAGYA VFGALLPAITLLHLNSACCIVYV SCLLADAGHRDSLQAGDKWT TTDSYSSSCTSETLGSACVRYA HSSRNHVRFALSDLDEVLPD VKLVVVCTHADSHFEYAKRAL EAGKNVLVEKPFTPTLAQAKEL FALAKSKGLTVTPYQNRFRDSC FLTAKKAIESGKLGEIVEVESHF DYRPAETKPGLPQDGAIFYG LGVHTMDQIISLFGRPDHYRL* HPGALRNKSPIWTNPFEAQL\FY G\DLKAIVKTSHLVKIDYPKFIV HGKKGSKIYKIDQQETSLKAN IMPGEPGAADDSVGVLEYVN DEGVTVREEMKPEMGDYGRV YDALYQTITHGAPNYVKESEVL TNLEILERGFEQASPSTVTLAK
21576	51944	A	21704	199	706	SHDVCRINADRQRDRNRRQR RSLRVYKLCNQQQNNGIGPRIL FHHFTQYALNFRHMRTEHGFC HPCDTVHRHDGDHTGTEDFVF/ WR*TRDWFWSG*\YQRPQQH KHLNNQYHRQRFAAEGWTQV RISTKKGDYSDCPEENPHCQPV AGRYHYSLVGRVSNATLARLIR
21577	51945	A	21705	354	569	SRAVCWQVGTRLWAIFGVSE LQRHVLVVFAGFWIVKNSRNL FLVCRAEHKRSVVKGLLRQQG AGLLVPLS
21578	51946	A	21706	373	462	
21579	51947	A	21707	1	1293	

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21580	51948	A	21708	1	1371	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIIILTKTNPASISK NEVFRSGMIAIVAVYGIWMA ETMFAPACYGYIILPTYPDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSA YRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLRVIPSIM VGSVCGAVTAALVGAQCYAG WGGLIVLPVVEGKLG YIAAVA VGAVVTILFV*TC*KVWRVKM GLRLMKKKTTWIWILKLI
21581	51949	A	21709	961	1116	
21582	51950	A	21710	228	388	RRGRNRYPALQ*TMFLPADGP ARCLSRQAAILKESVLPK*GRP DVVFSPAYPY
21583	51951	A	21711	1168	1851	LHRTGQRPAAQRTETHHPFFNH FARLQVDTVVINHHQHTVAFQ NRTFRSEI*RNNVDIFQPDVLPD ILLGPVREREDADAFVNL PV VVVPQLRALIFRIPAMEAVTER VNSLFSAGFLFVTARTTEGGIKT VFVQRLFQAFSFHNIGMFRAAV HEWINPHRHA FRVFMHQQFAA VGFSSTIAELIHLAEFPAGIDMQ QRERQRTWIKRLARQM QHDAG IFTDRVEH
21584	51952	A	21712	1	2653	
21585	51953	B	21713	632	709	

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21586	51954	A	21714	1	1214	MHDQQVIDAYHPDLRRTRAAS QSII PVDTKLAAGITRFFPQFND RFEAIAVRVPTINVT AIDLSVTV KKPVKTDVGGAGTVKLNRCQI ARISRQDVITPPGCVFEKALTLL IASGRNDTLARQNNHTKESLVE KPF RKILVIKMRYHGDMLLTTP VISTLKQNYPD AIDMLLYQDT IPILSENPEINALYGISNKGAGTF DKIKNVLSLIKTLRANNYDLVI NLTDQWMVALLVRCLPARMKI SQLYGHRQHGIWKKSFTHLAPI HGTHIVERNLSVLEPLGITDFYT DTTMSYAEDCWKKMRRELDA LGVKDHYVVIQPTARQIFKCRD NDIISKVICMIRGSPTEGRWSVF FFYPADFTFVCPTELGD/GC*PL RRTAETGRRRIRSIYRSLHPQS
21587	51955	A	21715	25	1086	
21588	51956	A	21716	1	1113	
21589	51957	A	21717	80	430	RWLATHYLT VKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21590	51958	A	21718	1	2076	
21591	51959	A	21719	2742	3109	VWTEGTGNASRRR/WKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLEKRAV SATQLMAKAVKGQSLLPVSL VKKKNHPGALIRKPPLPARWPI LLIQLARQVSRLETGQ

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21592	51960	A	21720	174	1608	TAAKRKIPSASIRSIND*KY*VC KRT*CVGQLAAIENADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDNSIDSWKNAGR VLMNPLMILVKIKLSLTLACH ALLDCKTLTLTELGRNLPTKAR TKHNIKRIDRLLGNRHLHKERL AVYRWHASFICSGNTMPIVLVD WSDIREQKRLMVLASVALHG RSVTLYEKAFPLSEQCSKKAHD QFLADLASILPSNTTPLIVSDAG FKVPWYKSVEKLGWYWLSRV RGKVQYADLGAENWKPI SNLH DMSSSHSKTLGYKRLTKSNPIS CQILLYKSRSGRKNQRSTRTH CHHPSPKIYSASAKEPWVLTATN LPVEIRTPKQLVNIYSKRMQIEE TFRDLKSPAYGLGLRHSRTSSS ERFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN VLSTVRLGMEVLRHSGYTITRE DLLVAATLLAQNLFTHG YALG
21593	51961	A	21721	1	3285	
21594	51962	A	21722	1095	1188	
21595	51963	A	21723	568	1263	
21596	51964	A	21724	2	1688	
21597	51965	A	21725	1456	2046	SKGKVAIVSSHQEVASPRRSP LGSEERPGPHTSRQAAGQPHPG TCSSVHCQGSWGLQTQNSEVIH DGDVEAISVGEDAAPGPRVHG ADLGQEEEA FR*VVMGGLPDR DSALAPVPEPMHRGWAVRAAE GAVQNDPVGGSESWGAGSHS QPFSHRPAPHTRGLAQAQTEAA GEGAVPEVHRGAVLAGVRAPG WAQP
21598	51966	A	21726	335	595	AGLFSRKRKVSICIRFE*ILTSC LGVRISTGKLVARIHGSFADAE*I L\WTGGDNESVS/MR*FFRPLER DLYNRIWHEIGLLLVSL
21599	51967	A	21727	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNGLWYCELS HYTVVLLLFMRKRSRFQSNVQ RKLMNTNF
21600	51968	A	21728	622	1281	

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21601	51969	A	21729	1066	1827	VPQAKGNNVVITSYMTNRGFF EDKKATFAPSFLMNIKGNKTSV VKNSILEQQQLTWLQVAKRAG LGGGQSGRTVLRERVRIEIAST HIALQHAIVTGDAVGMDDIPQE ARQYRHNQAYAYSIIQGDGAED DDERIAFASHTIQECRSQPGG YPFKIYSSRKDRIPISQSLLESHF TVHEETAPDLETTG*PGCKDHG NLCC/LSSVKLRYSMYRIKAGL WMTHPG*RTYWV
21602	51970	A	21730	1	1326	
21603	51971	A	21731	1	1971	
21604	51972	A	21732	1	1626	
21605	51973	A	21733	1	1810	
21606	51974	A	21734	305	442	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
21607	51975	B	21735	1	1938	
21608	51976	A	21736	531	669	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21609	51977	A	21737	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFRKRSRFQSNVQR KLMTNF
21610	51978	A	21738	10	426	
21611	51979	A	21739	314	451	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21612	51980	A	21740	1	1139	MWGIGSRTPINYKILVYSSPEVS CEKPKYVKSQTSTHTGFESHKR YIFYLRLVGKNLHVSAMGLGK SQERRKKALKSQPQQPADSFPS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLACLGMG KCSCSGFWLYF
21613	51981	A	21741	306	444	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE

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21614	51982	A	21742	189	1089	HHTAHCQ*CWL*S/DHGINPLRS WVG TG*V/GVRGKVQYADLGA ENWK PISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQ EGSPPETSLPYKWWVEAANLLI PAVGSSLSEALDLIES
21615	51983	A	21743	1	1135	
21616	51984	A	21744	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
21617	51985	A	21745	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMNTF
21618	51986	A	21746	773	1015	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADASF STDLYHGTLKPASLTMSGVLL GRMLARSARNWS
21619	51987	A	21747	391	527	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21620	51988	A	21748	671	1030	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE*I LGDGW*Q*VRVER*FFRPLERD LYNRILACPLINT*PTPVVRLKP *TVWSMGPVVGTPARPIRTSGA CWWCW
21621	51989	A	21749	221	478	AEQDCTILPVL RHFTFFKSRKVS SICIRFE*ILTSCLGVRISTGKL VARTHGSFADDQTLFFMTLAVS GELWTPSPWRPN SIRT S
21622	51990	A	21750	590	940	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMNTF
21623	51991	A	21751	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT

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21624	51992	A	21752	342	1459	SFLWRFRLRGGSERFCLAGIPSA SGV*NIPSASIRSIND*KY*VCKR T*CVGQLAAENADGTVAEYN GYHVVFALAGSPKDADDTSIY MFYQKVGDNSIDSWKNAGRUF KSDKFDANDPILKDQTQEWS GSATFTSDGKIRLFYTDYSGKH YGKQSLTTAQVNVSKSDDTLKI NGVEDHKTIFDGDGKTYQNVQ QFIDEGNYTSGDNHTLRDPHYV EDKGHKYLVFEANTGTENGYQ GEESLFNKAYYGGGTNFFRKES QKLQQSAKKRDAELANGALGII ELNNDYTLKKVMKPLITSNTVT DEIERANVFKMNGKWYFTDS RGSKMTIDAKSTLLESTEGSMT PPMTATEPFLRFLKGEIAQPKPH
21625	51993	A	21753	2094	2201	
21626	51994	A	21754	81	1080	HHTAHCQ*CWL*S/DHGINPLRS WVG TG*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQEHLWSL ALVRRRSPAQSPHVGTGSSGST GCSSQAPCMKSNNALIVILGTV TLDAVGIGLVMPVLPGLLRDIV HSDSIASHYGVLLALYALMQFL CAPVLGALSDFRGRPVLLASL LGATIDYAIMATTPVLWIYPLV
21627	51995	A	21755	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21628	51996	A	21756	1	593	MGVNDLWQILEPVKQHIPLRNL GGKTIAVDLSLWVCEAHPVKK MMGSVMKKHLRDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AAYPIPDQVQSVLISMLLIAL MLHLTCGLAGVHAQKQGWDK HFQANTVRNRNVLSTVRLGME VLRHSGYTITREDSLVAATLLT QNLFTHGIVLGKL*GDLSVLSL
21629	51997	A	21757	410	547	AGLFKSRKVSSICIRFE*ILTSC GVRISTGKLVARIHGSFADAE

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21630	51998	A	21758	719	814	AGLFKSRKVSSICIRFE*ILTSLGV RIFNR
21631	51999	A	21759	1	1596	
21632	52000	A	21760	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELOQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21633	52001	A	21761	1343	1480	AGLFKSRKVSSICIRFE*ILTSLGV RISTGKLVARTHGSFADAE
21634	52002	A	21762	2	151	
21635	52003	A	21763	258	396	AGLFKSRKVSSICIRFE*ILTSLGV RISTGKLVARTHGSFADAE
21636	52004	A	21764	1	3081	
21637	52005	A	21765	449	586	AGLFKSRKVSSICIRFE*ILTSLGV RISTGKLVARTHGSFADAE
21638	52006	A	21766	563	2042	
21639	52007	A	21767	1001	1093	
21640	52008	A	21768	1814	1870	
21641	52009	A	21769	2760	3723	HHTAHCQ*CWL*S/DHGINPLRS WVGTV*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNVLSTVRLGMEVL RHSGYTITREDLLVAATLLAQN LFTHGLFGPSVDAPPPKRGFKR PKLPELRLQRFFGGVITPPLESY SLPSDPVHLFPPRRPPRQLTASP LRARAPYECSSCKDA
21642	52010	A	21770	860	3503	
21643	52011	A	21771	4597	6030	
21644	52012	A	21772	1513	3464	AGLFKSRKVSSICIRFE*ILTSLGV RISTGKLVARTHGSFADAE
21645	52013	A	21773	1	453	

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21646	52014	A	21774	1	1526	MSSSHSKTLGYKRLTKSNPISC QILLYKSRSKGRKNQRSTRTHC HHPSPKIYSASAKEPWVLATNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRHSRTSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEE\EANS\ PNNKIT\VVG\VGQVGMA\CAISI LGKVSWPDELAALVGCWFEDK LKGNDGSGFQHGELIFFQTPKN CGQDKGLFWGPPNS*RFVSW*L AGSPVQPRRGRIRLKS WVPEK WLMVFQIPLFLKIV\KYSP*FAS* LVVSHPV\DIPTYVT\WETKVGL PKHRVIGSGCNLDSARFRYLMA EK\LGIHPS\SCHGW/IFWGEHG DSSVAWCWNGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLG YTNWAIGLS VADLIESMLKNLSRIHPVSTMV KGM YGIENEVFLSLPCILNARG LTSVINQKLKDDEVAQLKKSA DTLWDIQKDLKDL
21647	52015	A	21775	2	355	
21648	52016	A	21776	2	178	
21649	52017	A	21777	1	888	
21650	52018	C	21778	127	255	
21651	52019	A	21779	1	1824	
21652	52020	A	21780	330	476	
21653	52021	A	21781	452	500	

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21654	52022	A	21782	3	1584	DAWAAVSRGDEPGWGSWSR LLQHWGVSCWSDPKRFSSALQ GYIITDWCAPFNKRIWKREQPE ETFPNTETNGEFGK\RPAEDME EEQAFKRSRNT\DEMVEL\RILLA QSKNA\GAVIGKGGKNIKALRT DYNASVSV\PDSSVPERILCISA DIETIGEILKKIIP\TLEEGQLPSP TATSQLPLESDAVECLNYQHYK GSDFDCELRLLIHQSLGREGIIG GQRCLKSKELRGGTLQTTIKLF QECCPHSTDRVVLIGGKPDFV\ ECIKIILDLISESPIKGR\AQPYDP NFYGWKPMDY\GFTMMFDD RRGRPVGFP\MRGRGGFDRMPP GRGGRPMQPYRRDYDDMSPRR GPPPPPPGRGGGRSARNLPL PPPPPPRGGDL\MAYDRRGRPGD RYDGMVGFSADETWDSAIDTW SPSEWQMA\YEPQGGSGYDYSY AGGRGSYGD\GGPIITTQVTIPK DLAGSIHGKGGQRIKQIRHESGA SIKIDEPLEGSEDRIITITGTQDQI QNAQYLLQNSV\KQYSGKFF
21655	52023	A	21783	211	1635	KNMETEQPEETFPNTETNGEFG KRPAEDMEEQAFIRSRNTDEM VELRILLQSKNA\GAVIGKGGK NIKALRTDYNASVSPDSSGPE R\LSISADIETIGEILKKIIP\LEE GLQLPSPTATSQLPLESDAVECL NYQHYKGSDFDCELRLLIHQSL AGGIIGVKGAKIKELRENTQTTI KLFQECCPHSTDRVVLIGGKPD RV\ECIKIILDLISESPIKGRAQP YDPNFYDETYDYGGFTMMFDD RRGRPVGFP\MRGRGGFDRMPP GRGGRPMPPS\RRDYDDMSPRR GPPPPPPGRGG\RGLGSRARNLP LPPPPPPRGGDL\MAYYKGRP\ GDPYDGMVGFSADETWDSPID TWSP\SEWQMA\YEPQGG\SGY DYSY/AQGRGSYGD\GGPIITT QVTIPKDL/ALGSIYWKGGQR\ IKQIPS*VGELSIKIDEPL\EGSED RIITITGTQDQIQNAQYLLQIN SVKQYADVEGF
21656	52024	A	21784	860	1201	TISEPPALILLPIAVPSFSTTCRLP EDIIVVSAFPPLLIFCVPLLILVP VAMP*LLIFCVPLIMVFVAFPA TSITPPLSIRVASALALVKTDIVP LSLIIVLFAEPYAFMSK

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21657	52025	B	21785	1	3750	
21658	52026	A	21786	1	1350	
21659	52027	A	21787	189	1939	TAMAGRMPCAEVISGSATRPD GPKALFKPIGRPHQAIRPINKPP AAPPKQAVTNGFMRGRVPPKT LTVPSESSLAPMTLVVIVVKEA LPPAKIFSTPVYQPTRRAPDAE PLSASKTPSVYLVNFVVSPEDL RKLTVDVLPALRANTRALWQV EVSAPPSFMTQATPATQPLINAE PAVAAPTEQNPQVGPVMPGVQ GADAPVVAQNGPSRDVKLTF PIAPPPGSMVLRGLNPNGSLEFG MRSDEVVTKAMVQLELTPWH GYGCQCPLPVKYLAAIGFSV MIEALNQLAIFNRRRFLSANQT LRQRTTEAVMRLLSGQKEDAE LDAETASMLVDHGNQQIFNPQ ERRMIERVNLNLNQRVTSSIMTS RHDIEHIDLNAPEEEIRQLLERN QHTRLVVTGDDAEDLLGVVH VIDLLQQSLRGEPLNLRVLIQRP LVFPETLPLPALEQFRNARTHF AFVVDEFGSVEGIVTSLSDVTETI AGNLPNEVEEIDARHDIQKNAD RSWTGN/GLLPLGDCLL*QASP TGCINRRGS\HYGYPTLYEFRKR FLTPGTVCRCRCDQRGDAMRVQ VQWVFYTYILPLANE
21660	52028	A	21788	558	1563	TNNRL*K*GNN**LTNQKKSRT RWIHSRILPEAGC/GIASVGRNN CGLWRFTPAKAISWGKIHPVFQ RQILRVLSQTLFPN/MSLGRNLG YGLKMFGVPRAELKPRFKEALP MVNLEGFEDRFVDQISGGQQQ RVALARALILKPKVLLFDEPLS NLDANLRRSMRDKIRELQKQF DITSLYVTHDQSEAFVSDTVL VMNKGHIMQIGSPQDLYRQPA SRFMASFMGDANLFPATFSDG YVDIYGYHLPRPLHFGTQGE MVGVRPEAITLSDRGEESQRCV IRHVAYMGPQYEVTVEWHGQE ILLQVNATRLQPDVGEQYYLEI HPYGMFVLADAA
21661	52029	A	21789	201	312	CSWHD RFPD WKAGTHLLARG* QLSLPVWLCPVLKLS
21662	52030	A	21790	925	2388	
21663	52031	A	21791	1	759	

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21664	52032	A	21792	1	1086	MEKKITGYTTVDISQWHRKEHF EAFQSPAQCTKNQTVQLDITAF LKT VKKNKHKFYPAFIHILARL MNAHPEFRMAMKGVPGGDSV KNTSRVWSGNERDQKLLTENA LNDLIPSFLTGTGQTPALGRRVS GVIEIADGSRRRKAALTESDY RVLVGELYDEQMPPLSRLGND YRPTSAHPQKRRYASRLQNEFA GNISALADAENISVRDYNLL EVLGVDSVEKTRVWSGNERD QELLMEDALDDLIPSFLTGTGQ TPAFGRRVSGVIEIADGSRRRK AAALTESDYRVLVGELDDDEQM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIIPRCINSIAKLP
21665	52033	A	21793	1	935	MLRDLKKNVDLKGFEVDVRI TKYSNSNGSQSPWMEEQIRDA WGSMLKKNVRETDEVGKGQI RMRTVFEQAIDQRSSTDNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIRVGV MARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLTGTGQTPAFGRRVSGVIEI ADGGSSRSKKRRRGCEGRR/V RQGPCDQKHPAAFSVSGGKIHL SGRTPVEKRRLPQPRDLGARA FAACRGSRGRPWNWLPAALRL HADLGCVRGGGGGWPGANPY PAPASSTC
21666	52034	A	21794	181	923	QHAIVTGDAVGMHHIPQEARQ YRHNQAYAYSIIQGDGAEDDDE RIVRFHTRCLTEAFEKLQCGGV VNQLSRRGNNQHISSTYDINRA DTQVRRAVNNYDII VMSNSFN ASRSIRCGSVGSLPSSNLPINSVS IRCRAR/SG/EE* CQAPASKWAL LHK*HRPFPQDRKAGECLLHEY EDLVPIRDTLRLFPGGRYLPRA KHVAPSEPDPEDQKLRFCR HLYGQQPRSPVEIRLQHVAIAY PTHAYD

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21667	52035	A	21795	178	798	IRLEPFKINVLEQITKHIEKLQCG GVVKQLSRRGNNQHISSTYDIN RADTQVRRVNNYDIIVMSNSF N\ASRSIRCGSVGSLPSSNLPINS VSIRCRAR/SG/EE*CQAPASKW ALLHK*HRPFPQDRKAGECLLH EYEDLVPIRDTLRLFPGGRYLPR AKHVAPSEPDPQDEQKLRFCR RHLYGQQPRSPVEIRLELVAIA YQTHHA
21668	52036	A	21796	499	972	
21669	52037	A	21797	3	1141	SRVKLGQSSESQVAALKTREPM NIATLEVLVLKGLRVCFVKVNH PKGPASMYPGWVPILYIHAEDP LLPFYLGEKEDVTYAIKPTCWP GLDIIPSCALPRIETELMGKFD EGKLPTDPLMLRLAIETVAHD YDVIVIDSAPNLGIGTINVCAA DVLIVPTPAELFDYTSALQFFD MLRPLLKNVDLKGFEVDVIRLL TKYSNSNGSQSPWMEEQIRDA WGSMLVKNVKEFAGNISALAD AENISRKIITRCINTAKLPKSVV/ ALFSPGELSA\GDALQKAFTD KEELLKQQASNLHEQKKAGVIF EAEEVITLLTSVLKTSSASRTSL SSRHQFAPGATVLYKGDKMVL NLDRSRVPTECIEKIEAILKELE
21670	52038	A	21798	1	617	LEPASLSIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGGVVKQLSRRGNN QHISSTYDINRADTQVRRVNN YDIIVMSNSFN\ASRSIRCGSVGS LPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQD RKAGECLLHEYEDLVPIRDTLR LFPGGRYLPRAKHVAPSEPILSC
21671	52039	A	21799	181	953	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIQGDGAEDDDE RIVRFHTRRLTFKINVLEQITKHI EKLQCGGVVKQLSRRGNNQHI SSTYDINRADTQVRRVNNYDI IVMSNSFN\ASRSIRCGSVGSLPS SNLPINSVSIRCRAR/SG/EE*CQ APASKWALLHK*HRPFPQDRK AGECLLHEYEDLVPIRDTLRLFP GGRYLPRAKHVAPSEPDPQDE QKLRFCRHLHYGQQPRSPVEIR LQHVAIAYQTHHAYD
21672	52040	A	21800	1	798	
21673	52041	A	21801	1	1782	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21674	52042	A	21802	666	1131	KGRGTYGNERDQELLTÆDALD DLIPSFLLTGQQTAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTRQ LPKSVVGFFSHPGELSARSGDA
21675	52043	A	21803	1	3297	
21676	52044	A	21804	1	898	
21677	52045	A	21805	1	1977	
21678	52046	A	21806	1	1929	
21679	52047	A	21807	181	755	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIIQGDGA\GMTM SALLDFIHGA***YIRCGSVGRL PSSNLPINSVSIRCRAR/SG/EE*C QAPASKWALLHK*HRFPQDR KAGECLLHEYEDLVPIRDTLFL FPGGRYLPRAKHVAPSEPDP EQKLRFCRRLYGGQPRSPVE IRLQHVAIAIYQTHHAYD
21680	52048	A	21808	181	456	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIIQGDGAEDDDE RIVRFHTRCLA*SRRVNNYDII VMSNSFNGQSEHQVWIGGQFT FIKFAH
21681	52049	A	21809	1	780	
21682	52050	A	21810	1	1050	
21683	52051	A	21811	5	735	PPAAP/MGNLLMARVGVKARG KAHYLPLLRGESVRKTSRVGSG NERDQELLTEDALDDLIPSFLLT GQQTAFGRRVSGVIEIADGSR RRKAAALTESDYRVLVGELDD EQMAALSRLGNDYRPTSAYER GQRYASRLQNEFAGNISALADA ENISRQIITRCINTAKLPKSVVAL FSHPGELSARSGDALQKAFTEK RTLKQQALTSEQKRG/IEAE EVSSSLSPQGRLSNRSASKDMY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21684	52052	A	21812	1	887	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKETK AVGSGNERDQELLTEEAWNDL ILSFLLTGQQTAPFGRRVSGVIEI PDGSRRRKAAAALPKSDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFShPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLD RSRVPTEC/IEKIEA ILKELEKPAP
21685	52053	A	21813	345	921	RWRLQNLSFCSSCSGSGSEGAT CFARGSAYELGQRYASRLQNA FAGKISALADAEIFSRKIITRCIN TAKLLKSVVALFShPVELSARS GDALQKAFTDKEELLKQQASN LHEQKKAGVIFEAEVITLFTSV LKTSSASRTSLSSRHQFAPGAT VLYKGDKMVLNLD RSRVPTEC IEKIEAILKELEKPAP
21686	52054	A	21814	1	1989	
21687	52055	A	21815	6	311	
21688	52056	A	21816	3	848	PGGDSVKNTSRVWSGNERDQK LLTENALNDLIPSFLLTGQQT LGRRVSGVIEIADGSRRRKAAA LTESDYRVLVGELYDEQMPPLS RLGNDYRPTSAHPQKRRYASRL QNEFAGNISALADAENISRVRD VNLLLEVLGVDSVEKTFRVWS GNERDQELLMEDALDDLIPSF LTGQQTAPFGRRVSGVIEIADG SRRRKAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSAY ERGQRYASRLQNEFAGNISALA DAENISRKIIPRCINS\AKLP
21689	52057	A	21817	1	969	
21690	52058	A	21818	1	1614	

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21691	52059	A	21819	1	832	MDDIPQEARQYRHNQAYAYSI QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLARD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPFLL TGQQTPAFGRRVSGVIEIADGS RRRKAALTESDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITR\CINT\AQLAKSG VALFSPGELSAPSGDAL*KAF TD*EEFL*PQGSNLYEQKKAG\ VIFGS*KKFSLFLTSVV
21692	52060	A	21820	678	1338	TLRQTKPDNSAEIADGSRRRKA AALTE\SDYRVLVGELDDKQM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLKQQASNLHEQKKAGVIFEAE EVITLLTSVLKTSSASRTSLSSR HQFAPGATVLYKGDKMVLNLD RSRVPTCEKIEAILKELEKPAP
21693	52061	A	21821	1	1809	
21694	52062	A	21822	2	1010	
21695	52063	A	21823	284	2177	
21696	52064	A	21824	1	1296	
21697	52065	B	21825	1	1044	
21698	52066	A	21826	637	1073	IRLEPFKINVLEQITKHIEKLQCG GVVKQLSRRGNNQHISSTYDIN RADTQVRRVNNYDIIVMSNSF N\ASRSIRCGSVGSLPSSNLPINS VSIRCRAR/SG/EE*CQAPASKW ALLHK*HRFPQDRKAGECLLH EYEDLYPSVIH
21699	52067	A	21827	1	2403	

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21700	52068	A	21828	1471	3186	LPHPDMEIRGRVEQQRVGYTIEQI NHMRDVFGTRLRRAEDVFTPVI GVAAIKTGTTVHIVSSSSLLGG DHGSPRIGGLLLVCDYGPLVSS SGISGPTRIVGLIISLGPYHLCF RSDYRTGITDPLYIGDATIRVSL RVYSLPSRSRIEHVVANCGMIP KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVVFALAGSPKDADD TSIYMFYQKVGDNSIDSWKNA GRVFKDSDKFDANDPILKDQTQ EWSGSATFTSDGKIRLFYTDYS GVMARGNAITLPVCGRDVKYT LEVLRGDSVEKTSRVWSGNER DQELLTEDALDDLIPSFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLMQQASNLHEQKKAGVIFEA EEVITLLTSVAKTSSASRTSLSS RHQFAPGATVLYKGDKMVLN LDMSRVQLECLDRLHACRSTL
21701	52069	A	21829	158	926	AGPVIQNYVNTQPV/EETSYSTP AAPMVDSLIARVGVMAPGNAI TLPVCGRDVKFTLEVLRGDSVK KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQGGSSRV GDNSIDSWKTRGRVL
21702	52070	B	21830	1	3774	
21703	52071	B	21831	1	1495	
21704	52072	A	21832	556	1622	
21705	52073	A	21833	1	2616	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21706	52074	A	21834	1412	3310	SVTSCLKVTSVCLTSAAASCRS VLMRSTAELQCASHTLRKRKA ARRLISLMMTARKARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGLRLRAEDVFP PVIGVAAHKGNDPQGTASMYH GWVVDLHHHAEDTLLPFYLGEK DDVTYAIKPTCWPGLDIIPSCLA LHRIETELMGKFDEAQP NLGIG TINVVCAADVLIVPTPAELFDY TSALQFFDMLRDLLKNVDLKG FEPDVRILLTKYSNSNGSQSPW MEEQIRDAWGSMLKNVVRRET DEVGKGQIRMRTVFEQAIDQRS STDTSLSTPAAPMVDSLIRVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGNERD QELLTEDALDDLIPSFLTGGQT PAFGRRVSGVIEIADGSRRRKA AALPE\SNYGV LVAELDDEQMP AYPRLGNDYRPTSAYERGQRY ATRLQNEFAGNISALADAENIS VITRCINTAKLPKSVVALFSHPG ELSARSGDALQKAFTDKEELLK QQASNLHEQKKAGVIFEAEVI TLLTSVLKTSSASRTSLSSRHQF APGATVLYKGDKMVLNLDRSR VPTECIEKIEAILKELEKPAP
21707	52075	A	21835	783	2371	
21708	52076	A	21836	3236	4718	
21709	52077	A	21837	1	2481	

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21710	52078	A	21838	2450	3963	LLTAPITGGIGTINVVCADDVMI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEVDVRIILLTKYS NSNGSQSPWMEEQIRDAWGSM VLKNVVRETDEVGKAAPMVDS LIARVGVMARGNAITLPVCGRD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPSFL TGQQTPAFGQRVSGVKEIADGI RRRKAALTE\SDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITRCINTAKLPKSVV ALFSPGELSARSGDALQKAFT DK\EDLLKQQASNLHGAEKSW GCYFEAEVITLLTSVLKTSSIA SRTSLSSRHQFAPGATVLYKGD KMVLNLD RSRVPTEYRYGVFL NVLLPATKYFQLHDP SLRNMEL NYSLASEDLVLKGLRVLLVEG NDPQGTASMYHGWVPDLHIHA EDTLLPFYLGEKDDVTYAIKPT CWPGLDIIPSCALHRIET EYNG
21711	52079	A	21839	1573	2858	EPVFEQAIDQRSSTDTSLSTPAA PMVDLSIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISQ*ICWKYFCAG*C GKYF\RKIITRCINTAKLPKSVV ALFSPGELSARSGDALQKAFT DKEELLKQQASNLHEQKKAGV ISPPEEVITLLTSEIKTSSASRTSL SSRHQFAPGATVLYKGD KMFIT VKIAKRSQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDFRGRPVL ASLLGATIDYAIMATTPVLWIY PLVNSPSC
21712	52080	B	21840	63	368	
21713	52081	A	21841	189	204	SLPSGIKPQSSSKASSRIQVAPT M*SLPRQPLAWPSGHEACPQG
21714	52082	A	21842	153	370	LIAGAFRKASGGNNIFRRPKTL* LRRQPR*PQKSTPRRNKLGHYA IHKFPLTTESAVKKIETNTLVFT VLV

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21715	52083	A	21843	842	1770	CTPEKCLPAVHRRNWLRNAEPP VWKRHLSPICKRKRQGRATKPK RRPWYTTPPTRRVRDVALRPYS RH/GRQPHAKKKIRMSLTFRRP KTLRLRRQPRYPRKSTPRRNKL GHYAIHKFPLTTESAVKKIEENN TLVFTVDVKANKHQIRQAVKK LYDSDVAKHTEERRHDEQNNIL TREAKNRNDNTRNRARTETNT ETQKNSGYQALISFHSYYSSTS DNKAHLVSYQSGQCTYDRLG WNLLIRMTCRSLQHTYDIQSTQ IASCFHPVSVRVNRLRYCANYG GISAVFMPLRKELLILTRSSNSK VSQRLI
21716	52084	A	21844	353	605	EMAPKAKEAPAHPKAEAKAKA LKAKKAVLKGVRSHTRKKKIR MSLTFRRPKTLRLRRQPRYPRK STPRRNKLGHYAIHKFPLTT
21717	52085	A	21845	301	946	PGSYLKPLSWTVALSLRPGFMS RWPCQRLTWQRRSVTQASGAS GASLCASRLPRDKTAPKAKEAP APPKAEAKAKALKPKKAVVER CPHTHAKKRIRMSPTFRRPKTL RLRRQPRYPRKSTPRRNKLGHY AIHK\FPLTTE\SAGKKNKKNNT LVHCGC*RPTRHQ\IRQAVKK\L YDSDV\AKVTTLICPDKEKKAY VRLAPDYDALDVANKIGII
21718	52086	B	21846	12	115	
21719	52087	A	21847	1397	1489	
21720	52088	A	21848	519	747	SGSVISPIAAT*YRIFAVL*SVQ* **AGPGDLSGDGELP*SVAIQPN VFIAVSSITCNWLPFGKCGSTY WMCQSM
21721	52089	A	21849	185	456	QHQPLEVASQWKVCSVSVKLL SQSSDVTRVPLEGLDRLSERSG SLSVL*SGILWALDAASQLVSL LP*LTRYHDPRVSSL/SSTYV*SP
21722	52090	A	21850	789	1086	

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21723	52091	A	21851	1	766	SGRKEANYVYGSALTQAGTVSLG LDAEGQEVFVPFSAVLPMVAP NDLVFDGWDISSLNLAEMRR AKVLDWGLQEQLWPHMEALR P/LGLAVYIPEFIAANQSARA\D N\LIPGSRAQQLEQIRRDIDFRS SAGLDKVIVLWTANTERFCEVI PGLNDTAENLLRTIELGLEVSP STLFAVASILGGLCLSFNGSPQ NTLVPGALELAWQHRILVGGD DFKSGQTKVKSVLVDFLIGSL KTMSIVSYNHLGNNDGEN
21724	52092	A	21852	2	2122	WKSWMVFTAMKLVKAHRLK LRLKGYLPVTCLEGTRNQRIAA TIRHNRARGRHQITAMSEIVRE LSQLGWDDNKIGKELGMDSD VLRLKQINGLQELFADRQYSRA WTLKLAQAFSCCQRRFLGK TETNQFMWEGIGAKHRQRNR YAVLLRQPLAKLNIIQARYPNQ HRQHAGECNPQCAGGDIVDR CPARCFTKGDSKDGSPQATWP FHNSATMTAKRLSEASQCGSK KSILRERIIYRPSITRYPFQSTMN HPLPEQTLGCIATDYGSSPSPDR SPGPAHYWTDHSTANIRYQV AAEENGEYTYVERVKIPLDHGT LLIMERATQADWQLEQIRRD IDFRSSAGLDKVIVLWTANTERF CEVIPGLNDTAENLLRTI/D/RSV WEVSPSTLFAVASILEGCAFLN GSPQNTLVPGALELAWQHRVF VGGDDFKSGQTKVKSVLVDFLI GFRLQRP/SSIVSYNHLG\NNDG ENLSAPLQFRSKEV\SRSNVVD DMVA\SNP\VLTYTPGEEPDCV VIKYVPYVGDS*RAL\DEYTS ELMLGGTNTLV\HNTC\EDSL LAAPIML\DLGAA*PSCCQRV TFLALDIGTPSRRPFHPVLV PAQAFFKGTLSPPGKP/VLV NAAFSASAAA IENILRACV GLPPQNHMLLEHKMERPGPS LKRVPWLPPYPMLNKKGP GSRCPMAAPVD
21725	52093	A	21853	1	1908	
21726	52094	B	21854	1	1833	

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21727	52095	A	21855	1	749	MFQLMKASSGGEAACMPAGL MENYKHTTVLLDEAVNGLNIR PDGIYIDGTFGRGLGEEGRLLA IDRDPQAIIV/AKTIDDPRFSIIH GPFSALGEYVAERDLIGKIDGIL LDLGVSSPQLDDAERGFSEMRD GPLDMRMDPTRGQSAAEWLQT AEEADIAWVLKTYGEERFAKRI ARAIVERNREQPNDELEEIEQA LKSSLNVLAPGGGVSIISFHSLE DRIVK/RFMREHQFCVVVRSGV GLKT*SVR
21728	52096	A	21856	532	1418	CFASGFIGELRKNIIVGFIEQDHT RGLVFRLTPGRTLRAESNLNVIC LPMNFQPYDSDADWVITGVPP DMATSGRAGGRHGPAAIRQVS TNLAWEHNRFPWNFDMRERLN VVDCGDLVYAFGDAREMSEKL QAHAEKLLAAGKRMLSFGGDH FVTLPLRAHAKHFGKMALVH FDAHTDTYANGCEFDHGTMFY TAPKEGLIDPNHSVQIGIRTEFD KDNGFTVLDACQVNDRSVDDV IAQVKQIVGDMP/VYLTLYNCG GPS*QFHSLRPAQSPLDRCAR YLAPQCVPDFRTLQR
21729	52097	B	21857	64	1842	
21730	52098	A	21858	1	503	MRWLVSPIEDTGHKALLFACL ALHRACVSGHCLSPKCVGVDG RHEMVAPGLFDWLLDGTGV WDGTSTNVEGAQEHA VILLII TDGVISDMEETGMPWCRLPSCP CPSSSGRGQCGLRCHGVPGWG RRMLRSHTGEEAARDIVSSFPF ESSATMSEEVYDPRSLYERLQE QRTGSSRTARQEA VVGSKVTV SQPGHRQETTVLEHLVQY/FILL IITDGVISDMEE/TRHAVVQASK LPMSIII/VGVGNADFAAMEFLD GDA/GMLRSHTGEEAARDI/VQ FVPFREFRNNVRGGL*PSISI
21731	52099	A	21859	2223	2363	

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21732	52100	A	21860	3	693	GDDGKWMLVHRTEVIKYTLDP VWKPFTVPLVSLCDGDMCKPIQ VMCYDYDNDGGHDFIGEFQTS MSQMCEARDSVPLEFECINPK KQRKKKNYKNSGIIILRSCKINR DYSFLDYILGAGCQLHVSPLGID FTASNGVDPLDPSSLHYINPMG TNEYLSAIWAVGQIIQDYDSDK MFPALGFGAQLPPDWKVSHEF AINFNPTNPFCSGVDGIAQAYS TCLPHIRFYGPT
21733	52101	A	21861	1	2231	MYSQEGNQFCNRTDCQELLPPP PAPMAHIPSGGAPAAAGAAMP PQYCVCKVELSVSGQNLLDRD VTSKSDPFCVLFTENNGRWIEY DRTETAINNLPFAFSKKFVLDY HFEEVQKLKFAFDQDKSSMR LDEHDFLGQFSCSLGTIVSSKKI TRPLLLNDKPAGKGLITIAAQE LSDNRVITLSLACRRLDKKDLF GKSDPFLEFYKPGDDGKWMLV HRTEVVIKYTLDPVWKPFTVPL VSLCDGDMCKPIQVMCYDYDN DGGHDFIGEFQTSVFKMCEAR DSVPLEFECINPKKQRKKKNYK NSGIIILRSCKVNQRGQARARG QVSGHTEGTDRLDLEPARPVF KSRLCHILALWPSELHLTRPQSP HLWNGDINEAEHVQGYSSLTFL CGGQGRHELTFQGLSWWENCH CELLPPTVGMQGAEDIGWGHF VLSGISVTVTPMINRDYSFLDYI LGGCQLMFTVGIDFTASNGNPL DPSSLHYINPMGTNEYLSAIWA VGQIIQDYDRPRSFLKPDPWAG TEAVTGQHVMFSVYETHVEWG RQIGLPDVANQNTRHPVKFEFQ VSHEFAINFNPTNPFCSGVDGIA QAYSACLPHIRFYGPTNFSPIVN HVARFAAQATQORTATQYFILL IITDGVISDMEETRHA VVQASK LPMSIIIVGVGNADFAAMEFLD GDSPHAALPTRGRRQPRDIVQF
21734	52102	A	21862	694	825	QPGLSINIEAGAVPRPFARRYW GNLG*FLFLGVLRCFSSPGSPH
21735	52103	A	21863	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
21736	52104	B	21864	1	564	

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21737	52105	A	21865	43	617	PIIQKVRSHTPKRAPTACTYTVS GSFSLPSPGFFSPFPHGTGSLSVS QEYLALAEWSPHISARDCTCSG LLIELPSTGIFVYGAVTLYRAPF QTLPTVTHALIQALGCSPFARRY WGNLG*FLFLGVLRFCFSSPGSP H*PMDSVNDSVSKHT/EVSPFG N\PGYNGSYHLTDAYRRLARPS SPLT\PGHPPLYG
21738	52106	A	21866	2969	3593	
21739	52107	A	21867	1219	1503	HFTDGGQNNRQHGCGVRRQAG KQVVCCKVEHQNQYNHRCVW* ESFQVRTHGTGEPVNKTRTSQA VSHHNQSCQVDQCVPCAVIAG NVFPRHNVQGGH
21740	52108	A	21868	193	378	
21741	52109	B	21869	1	1473	
21742	52110	A	21870	3536	3926	PKMVRWLARKCWNTVSTVRC FWMAMPTPVFAPCAAIKTASA R*MSWASSR*PNRGCVKSATLR QFS*VAAMK*PPVAQ*WWLGR NASTAGGDSGAGRSLDDGEPTP CGMGLEQKRHGNPAGCVAPSR WS
21743	52111	A	21871	140	901	MAMSKVKSITRESWILSTFPEW GSLWNEEIEQEQVAPGFTFMW WLGCTGIWLKSEGGTNVCVNL WCGTGKQSHGNPLMKQGQQM PPMAGVKKLQPNLRTTPFVLDP FAIRQIDAVLATHDNDHIDVN VAAAVMQNCADDVPFIGPKTC VDSWIGWGVPKERCIVVKPGD VVQVTALEIHAPDAFDRAPIT WLADQKRRRTVKG/MDDAPL* QVSYRPSTPPRCCYWSLLSSSV YYSKRPFAGHYARLCIPFMD
21744	52112	A	21872	287	392	
21745	52113	A	21873	1	492	
21746	52114	A	21874	569	1061	SGTVLDM/SEYSRVQIRKQPYLS KGYIPVRQKTKAAWLLKAVTFI DLTTLSGDDTSSNIQRLCYKAK YPIREDLLKALNMHDKVAAGF PAGQTHLKTRLEEIRLAVEDGA TEIDVVINRSLVLTGQWEG/LYS PVVYSALPCNI*HSRLFLPSGNA LLLWLWCLHS

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21747	52115	A	21875	2	1072	ARSNIRMVTAFRSLPAGSSGAA RA\MSAHNRGTDLDSWISKIQ VNHPAVLARAEQIQARRT\VK KDWQAAWLLKAVTFIDLTLS GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGIT\TAAVCVYP ARV\CDAVKGTSRPAG/CVNIPV GISRAAGF\PAG\QTH\KTRLEE IRLAVEDGSLQKIDV\VINRSLG A*QAQWE\ALYDEIRQF\RKAC GEA\HLKTLATGELGTLTNVY K\ASMIAMMAGSDF\IKTSTGKE TVNATFPVAIVMLR\AIRDFFWK TGNKIGFKPAGGIRSAKDSLAW LSLVKEELGDEWLKPELFRIGA STLLSDIER\QIYHSCGLGRYGS LFMDLSQCL
21748	52116	A	21876	3	221	
21749	52117	B	21877	49	342	
21750	52118	A	21878	1	828	
21751	52119	A	21879	1362	2405	RPPWRHWDGNSSVLVHFQLHF LLRPLQTLSLGLEEELLQRGIRA RLREHGISLAAYGTIVSAELKG GSRPCAVWWPSEPGAGRCPGN SFSCGNSQCVTKNPECDQED CSDGSDEAHCEGLQPAWRMA GRIVGGMEASPGFPWQASLRE NKEHFCGAAIIN/DQPLRS*NHR FQDPTKWVAYVVRPTSAARRP APCGPSKKA/WISGWGYLK/EG LP*ASRPAMVKPEVLQKA/DW ELLDQALCASLYGHSL/TDRMV CAGYLDGKVDSCSVLFLFRGTI SFFFSEDRNLIRYVLLYSIFVFN CISGKPPQPGPPVLRALCQHPHQI DAGPQYRASCVWTVPKLQGIF
21752	52120	A	21880	600	904	SVSLLDEETALPFSWDELRLSA LLDT*AAFQEIELAFQDPQCVG LLTAP/YADAAFGSTDIAMFLL VPILSARKPASPRSS*TFSHLATE PLPASIK*AAA
21753	52121	A	21881	393	572	
21754	52122	A	21882	165	432	PGMAVSYEKISKYPVEFLPAQA NIAGHNDAPEREFPQW*LWLL LPNF*LQEKCSPTLCHFLSRRTQ SEFPSSTAAGNLSVSLLYPCKS
21755	52123	B	21883	1	1011	

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21756	52124	A	21884	783	1234	YYRRCGAASPHGRDPVQIG*TS SQPR*SAYRN/PASVIPVARHSA RAPAILRP*VVVAERSERSIPGL RATPAEIRTTAPSSAGVASSPE KPLIFTAIDSHTGSHWSDIIHVC AKKLQNYVPKLNASLLLTPSIY VTRTTRSGPIPPARQ
21757	52125	A	21885	249	398	GYFDIFS YDTAIPGQSAEQDAR ED*AF*MPDRAYSQPCSSLVFP KGCKK
21758	52126	A	21886	309	845	CGAREERGRGCHHVHSQLRGP GPAPGQVQQPQLVPAPVPELP GLRGLSWQARRTRARHRQGV QDHQPDPTVHAQLRGVQLGEA PLQLHHGD*DHRAP*GYFDIFS YDTAIPGQSAEQDARED*AF*M PDRAYSQPCSSLVFPKGCPVPG RGCAAGVQAAGAAHPPLDHPA LQPLQGR
21759	52127	A	21887	1236	2100	DLICGRGCQGRPRHLQPQTEL EAEVPAERPGRGPAVAARSDP RAQAEDVPGYNPLSGKPAKQQ VHEGHHPGAPGHRPFGGAAP AGGPHRCLPAQPARPCGGAAEP RGGPAGAH*ARGSRAAGEGQP WWSPRLGAGPPAAPVHAAPG SHLLPGHHLPTQPSALAAAQPL AEEPREQ/PGAGGPQPGSPTLRG VEVVPLPHAAGGAGAVPVGGA ACPTAPHPAASAPAVLLSQLG TQHPPRRDPPHCSCAGIQDSGW AGPPALWSLLHVAKPAQARRP CALLHPGV
21760	52128	A	21888	1931	2185	AKAFSFFRYISRVSRNRTCLSR SMRRSFDSSNADAAFGSTDA MFLVLPILSARKPASPRSS*TFS HLATEPLPAIK*AAA
21761	52129	A	21889	1254	1760	
21762	52130	A	21890	1	2001	SIRRPKRARPIRIKKIPEQQG/PQ PAVLVQTVATRDRELQMP/P VGPETLKRDPVVRAMTIPATAA VYKPYWGATPLPIA\KPSPAG*Q *SRRFSKGYFGFD
21763	52131	A	21891	195	545	HSPGSFYRSDAQSPAPAIRAA V*AEVQ*TPLCHDRITHFPEDW RGWQRS*F*PAACRVAGSLPVP VSPQIQHPYCRSSAQYLPCGAG LPLPGFDRLCPRSLEQGLAVTG GSCGPS

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21764	52132	A	21892	825	1299	YSCRTEHPRLATAEYRHHQRA ADAGR*RHAGVAFYPIKERYR QPEPAFSYQ/PRRWSASRNRPS R*RMRRFPANSSTPFPPAPPLRR KRVASLIGGRMLRLTGAGIAEE RMIAPQLPECILHELTERPHFPF LGIDLILTCGERLLAIPRTTHVE
21765	52133	A	21893	1460	1810	RATHVLTWVRGTPKRAEMILG SSRSMSAAAVTVLISPATAQRW ITRAP*PSPIRSPSVSRLTATRPSS ITKARALSPMAAPALRSTVTTTP PRITVEKPLLMEKIPRVPKSRAI SAL
21766	52134	A	21894	231	704	QSQKPDTRGRLFVAKAPPCVQR HKVRWLRLVMTSAHYLPLRR* *PAHPASGGCCPNRAKYTQRPA E*ISYRPD*EAVR*SRAPAKVTQ SNPASRVALRRPAPRAVHQATII PVDESTLLPAPLAVSARQKVRQ AIPLRDSVRRPTLDVRHRATG L
21767	52135	A	21895	1291	1925	RQLLRWSNR*IAR*SLTQPARRF PAYHYAHPAAAAAPGDPLGAD LQLCARHYHRQRHCVPRHAGY PRSDGLHPQPRGRWRIRCDCL RVPF
21768	52136	A	21896	1	445	MFISGLDDFFIDVVYWVRIKR KLSVYRRYPRMSYRELYKPDE KPL/DDYGSGVE*NGRHRQYGR AGGDHARLRKLSYLCWHLPCR PRYSA*C*RSVRSLEPCA*GSLR ASWP/HPAKPTV*TTCWTPSPN LSVAPISLLLVLFCMTPKM
21769	52137	A	21897	79	377	SRKSGISIGAVKRPTH*GS*KAR SIC*NAAYVSKKAESLSSFPEKS ESTQRVKAVLSS**ASQGC GDT AQYVLLSFKGSQQA*QVCGR* KAY**DLSRE
21770	52138	A	21898	1282	1535	GSTYEIASATPSPSAKPSNRSPSP MSRPQSNPKPNSLHSC*P*GNL RSTPESGK*ATPPPPAYTLVLF KLANPQLPEESPAF
21771	52139	A	21899	3775	4031	CRRTAASRTPRKRTQTAPTHAT NKPQKPQTSTDRGNRREPEKTE PS*HLRPNPQEPGRRGQTQ\EP APRHQPPKPQGEPTTPQKQ

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21772	52140	A	21900	1	2595	MESHTVTDYNFGRLLNESFAN CETDRNYLGIFKCGFWLSGTRK SAFLTKSQVTLTRPVDHTRLNE VLGSTKYQVPGYRRKTNTNLE ESNVLIGYDVAPGGGKQIDGKK AEGRELMVPVAGRPLCRSSSM ELLLLLPLHIPREQMLLADAYW NLHQSCQSKTSPDTAKCPLDRC PRVFKSQSYKASTFDGLSMDTE VIKSNGKQGWRRRLANMKDI DKQTQAATFVLSQGMQRSGND RIILVTGASDGIGREAAMTYAR YGATVILLGRNEEKLQVASHI NEETGRQPQWFILDLLTCTSEN CQQLAQRIAVNYPRLDGVLHN AGLLGDVCPMSEQNPQVWQD VMQLFRAGIINADPGAFFVTGF RRYCCFTLCCRSFRFGFYRRRF RHRSCRQRAMRHSGTGQGQGN EQCFNSVFHTVFSLFVNSGITLT AVKTVNKWQCSEMEKAAKAT FSCYSCNAFFCEAASGLLLFQRI ANFDFRLFTQVTHQSFKDDLGI KMETTKPSFQDVLEFVRLFRRK NKLQREIQDVEKKIRDNQKRVL LLDNLSDYIKPGMSVEAIQGIHA SMKGDYEDRVDDYIIKNAELSK ERRDISKKLKAMGEMKNGEAN RKERSSMFRDRPLKRMKSKRD DDSYDEDVEDDEGVGEVRVHR VNHAPANAQEHEAARSPQHQ YQPPYASAPRQPVPQPPEAQV
21773	52141	A	21901	1	96	
21774	52142	A	21902	105	430	ASIFVMLVRGAEPMEKRQQRG LFTVPGLLLAFCSHVLSCVNPLI PVDNPYYPLSELIPAPPQPNDR AQRVSEKSGRAPNTQTASPRA LADSLMQLARQVSRLESGQ